olivetti

OPERATION GUIDE

d-COLORP2021/P2026

GB

Code: 563301en

PUBLICATION ISSUED BY:
Olivetti S.p.A.
Gruppo Telecom Italia

Via Jervis, 77 - 10015 Ivrea (ITALY)
www.olivetti.com

Copyright © 2010, Olivetti
All rights reserved

The mark affixed to the product certifies that the product satisfies the basic quality requirements.

The manufacturer reserves the right to carry out modifications to the product described in this manual at any time and without any notice.

ENERGY STAR is a U.S. registered mark.

The ENERGY STAR program is an energy reduction plan introduced by theUnited States Environmental Protection Agency in response to environmental issues and for the purpose of advancing the development and utilization of more energy efficient office equipment.

Your attention is drawn to the following actions which could compromise the conformity attested to above, as well as the characteristics of the product:

- incorrect electrical power supply;
- incorrect installation, incorrect or improper use or use not in compliance with the warnings provided in the User's Manual supplied with the product;
- replacement of original components or accessories with others of a type not approved by the manufacturer, or performed by unauthorised personnel.

All rights reserved. No part of this material may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording or by any information storage and retrieval system, without permission in writing from the Publisher.

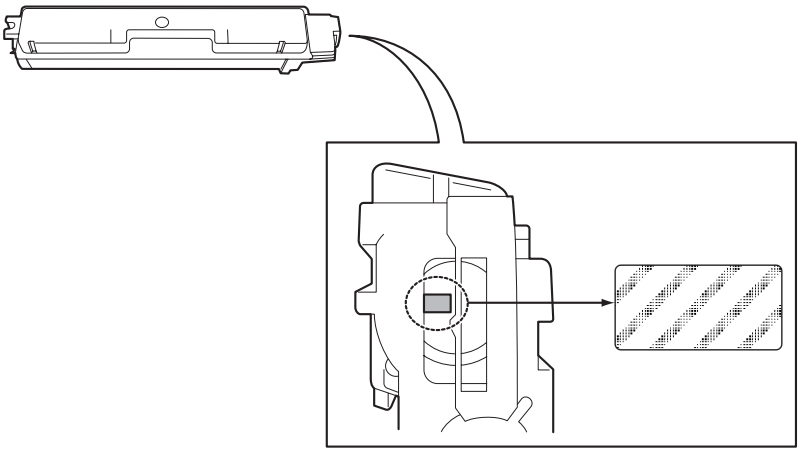
Introduction

Thank you for your purchase of d-Color P2026 and d-Color P2021.

This Operation Guide is intended to help you operate the machine correctly, perform routine maintenance and take a simple troubleshooting action as necessary, so that you can always use the machine in good condition.

Please read this Operation Guide before you start using the machine, and keep it close to the machine for easy reference.

We recommend the use of our own brand supplies. We will not be liable for any damage caused by the use of third party supplies in this machine.



Contents

Menu Map iii

Legal and Safety Information vii

1 Machine Parts
Components at the Front of the Printer 1-2
Internal Components 1-2
Components at the Rear of the Printer 1-3
Operation Panel 1-4

2 Printing Operation
Changing Network Interface Parameters 2-2
Printing a Status Page 2-3
Embedded Web Server 2-3
Installing the Printing System Driver 2-4
Printing from Application Software 2-10
Status Monitor 2-11
Uninstalling Software (Windows PC) 2-15

3 Handling Paper
General Guidelines 3-2
Selecting the Right Paper 3-4
Special Paper 3-8
Paper Type 3-13
Loading Paper 3-14

4 Using the Operation Panel
General Information 4-2
Understanding the Operation Panel 4-3
Keys 4-6
Using the Menu Selection System 4-8
Setting a Mode Selection Menu 4-10
Report Print 4-11
USB Memory (USB memory selection) 4-16
Custom Box (Using a Custom Box) 4-18
Job Box 4-22
Counter (Viewing the counter value) 4-28
Paper Settings 4-29
Print Settings 4-37
Network (Network settings) 4-46
Device Common (Selecting/Setting the common device) 4-52
Security 4-62
Job Accounting (Job Accounting selection/setting) 4-70
Administrator (Administrator settings) 4-76
Adjust/Maintenance (Adjust/Maintenance selection/setting) 4-79
Optional Functions 4-89

5 Maintenance
General Information 5-2
Toner Container Replacement 5-2
Replacing the Waste Toner Box 5-6
Cleaning the Printer 5-8

6 Troubleshooting
General Guidelines 6-2
Print Quality Problems 6-3
Error Messages 6-6
Clearing Paper Jams 6-11

Appendix
Interface A-2
USB Interface A-2
Network Interface A-3
About the Options A-5
Expansion Memory Modules A-6
General Description of Options A-8
Specifications A-12

Glossary Glossary-1

Index Index-1

Menu Map

MENU Key

Report Print (*page 4-11*)	Print Menu Map (*page 4-11*)	
	Print Status Page (*page 4-13*)	
	Print Fonts List (*page 4-15*)	
	Print Hard Disk File List (*page 4-15*)	
	Print RAM Disk File List (*page 4-15*)	
USB Memory (*page 4-16*)	Print File (*page 4-16*)	
	Copies (*page 4-17*)	
	Paper Source (*page 4-17*)	
	Remove Device (*page 4-17*)	
	Print File List (*page 4-17*)	
Custom Box (*page 4-18*)	Select Box (*page 4-18*)	Print All Files (*page 4-19*)
		(Selects the data) (*page 4-20*)
		Delete All Files (*page 4-21*)
		Print File List (*page 4-21*)
	Print Box List (*page 4-21*)	
Job Box (*page 4-22*)	Quick Copy (*page 4-23*)	
	Private/Stored (*page 4-25*)	
	Job Box Configuration (*page 4-26*)	Quick Copy (*page 4-27*)
		Delete (*page 4-27*)
Counter (*page 4-28*)	Printed Pages (*page 4-28*)	
	Color (*page 4-28*)	
	Black & White (*page 4-28*)	
Paper Settings (*page 4-29*)	MP Tray Size (*page 4-29*)	
	MP Tray Type (*page 4-30*)	
	Cassette 1 Size (*page 4-31*)	
	Cassette 2 Size (*page 4-31*)	
	Cassette 3 Size (*page 4-31*)	
	Cassette 4 Size (*page 4-31*)	
	Cassette 1 Type (*page 4-33*)	
	Cassette 2 Type (*page 4-33*)	
	Cassette 3 Type (*page 4-33*)	
	Cassette 4 Type (*page 4-33*)	
	Type Adjust (*page 4-34*)	Paper Weight (*page 4-35*)
		Duplex Path (*page 4-35*)
	Reset Type Adjust (*page 4-36*)	

Print Settings (*page 4-37*)	Paper Source (*page 4-37*)	
	Paper Feed Mode (*page 4-38*)	
	Duplex (*page 4-38*)	
	Override A4/LT (*page 4-40*)	
	Emulation (*page 4-40*)	
		Error Report (*page 4-40*)
	Color Mode (*page 4-42*)	
	Print Quality (*page 4-42*)	Gloss Mode (*page 4-42*)
		EcoPrint Mode (*page 4-43*)
	Page Set (*page 4-43*)	Copies (*page 4-43*)
		Orientation (*page 4-44*)
		Wide A4 (*page 4-44*)
		XPS FitTo Page (*page 4-44*)
		TIFF/JPEG Size (*page 4-45*)
Network (*page 4-46*)	TCP/IP (*page 4-46*)	
		DHCP (*page 4-47*)
		Auto-IP (*page 4-47*)
		IP Address (*page 4-47*)
		Subnet Mask (*page 4-48*)
		Gateway (*page 4-49*)
		Bonjour (*page 4-49*)
	TCP/IP (IPv6) (*page 4-50*)	
		RA (Stateless) (*page 4-50*)
		DHCPv6 (*page 4-50*)

Device Common (*page 4-52*)	Message Language (*page 4-52*)	
	Date Setting (*page 4-52*)	Date (Year/Mon/Day) (*page 4-53*)
		Time (Hour:Min:Sec) (*page 4-53*)
		Date Format (*page 4-53*)
	Buzzer (*page 4-54*)	Key Confirmation (*page 4-54*)
		Job End (*page 4-54*)
		Ready (*page 4-54*)
		Error (*page 4-55*)
	RAM Disk Mode (*page 4-55*)	
		RAM Disk Size (*page 4-56*)
	Hard Disk (*page 4-56*)	Format (*page 4-57*)
	Error Handling (*page 4-57*)	Duplex (*page 4-57*)
		Paper Mismatch (*page 4-58*)
		MP Tray Empty (*page 4-58*)
	Timer (*page 4-59*)	Form Feed Time Out (*page 4-59*)
		Sleep Timer (*page 4-59*)
		Auto Error Clear (*page 4-60*)
		Error Clear Timer (*page 4-60*)
		Auto Panel Reset (*page 4-61*)
		Panel Reset Timer (*page 4-61*)
Security (*page 4-62*)	I/F Block (*page 4-63*)	USB Host (*page 4-63*)
		USB Device (*page 4-63*)
		Option I/F (*page 4-64*)
	NetWare (*page 4-64*)	
		Frame Type (*page 4-64*)
	AppleTalk (*page 4-65*)	
	IPP (*page 4-65*)	
	SSL Server (*page 4-66*)	
		DES (*page 4-66*)
		3DES (*page 4-67*)
		AES (*page 4-67*)
		IPP over SSL (*page 4-67*)
		HTTPS (*page 4-68*)
	IPSec (*page 4-68*)	
	Security Level (*page 4-69*)	
	Thin Print (*page 4-69*)	
		ThinPrint over SSL (*page 4-69*)

Job Accounting (*page 4-70*)	Job Accounting (*page 4-71*)	
	Select Account (*page 4-72*)	Counter (*page 4-72*)
		Color Counter (*page 4-72*)
		Restriction (*page 4-73*)
		Color Restriction (*page 4-73*)
		Maximum Output (*page 4-73*)
		Color Max. Output (*page 4-74*)
		Reset Counter (*page 4-74*)
	Add Account (*page 4-74*)	
	Delete Account (*page 4-75*)	
	Print Job Accounting List (*page 4-75*)	
Administrator (*page 4-76*)	Change ID (*page 4-77*)	
	Change Password (*page 4-77*)	
Adjust/ Maintenance (*page 4-79*)	Color Calibration (*page 4-79*)	
	Registration Normal (*page 4-79*)	Print Registration Chart (*page 4-80*)
		Adjust Magenta (*page 4-81*)
		Adjust Cyan (*page 4-82*)
		Adjust Yellow (*page 4-82*)
	Registration Details (*page 4-82*)	Print Registration Chart (*page 4-83*)
		M 12345 3 (Adjust magenta) (*page 4-84*)
		C 12345 3 (Adjust Cyan) (*page 4-85*)
		Y 12345 3 (Adjust Yellow) (*page 4-85*)
	Restart Printer (*page 4-86*)	
	Service (*page 4-86*)	Print Status Page (*page 4-86*)
		Print Network Status Page (*page 4-87*)
		Print Test Page (*page 4-87*)
		Maintenance (*page 4-87*)
		DEV-CLN (*page 4-88*)
		LSU (*page 4-88*)
		Drum (*page 4-88*)
		Altitude Adj. (*page 4-88*)
		MC (*page 4-89*)
Optional Functions (*page 4-89*)		

Legal and Safety Information

CAUTION NO LIABILITY IS ASSUMED FOR ANY DAMAGE CAUSED BY IMPROPER INSTALLATION.

Notice on Software

SOFTWARE USED WITH THIS PRINTER MUST SUPPORT THE PRINTER'S EMULATION MODE. The printer is factory-set to emulate the PCL.

Notice

The information in this guide is subject to change without notification. Additional pages may be inserted in future editions. The user is asked to excuse any technical inaccuracies or typographical errors in the present edition.

No responsibility is assumed if accidents occur while the user is following the instructions in this guide. No responsibility is assumed for defects in the printer's firmware (contents of its read-only memory).

This guide, any copyrightable subject matter sold or provided with or in connection with the sale of the page printer, are protected by copyright. All rights are reserved. Copying or other reproduction of all or part of this guide, any copyrightable subject matter without the prior written consent of Copyright owner is prohibited. Any copies made of all or part of this guide, any copyrightable subject must contain the same copyright notice as the material from which the copying is done.

Regarding Tradenames

KPDL is trademark of Kyocera Corporation.

Hewlett-Packard, PCL, and PJL are registered trademarks of Hewlett-Packard Company. Centronics is a trade name of Centronics Data Computer Inc. PostScript is a registered trademark of Adobe Systems Incorporated. Macintosh is a registered trademark of Apple Computer, Inc. Microsoft and Windows are registered trademarks of Microsoft Corporation. PowerPC is a trademark of International Business Machines Corporation. ENERGY STAR is a U.S. registered mark. ThinPrint is a trademark or registered trademark of ThinPrint GmbH in Germany and other countries. All other brand and product names are registered trademarks or trademarks of their respective companies.

This product contains UFST™ and MicroType® from Monotype Imaging Inc.

License Agreements

Typeface Trademark Acknowledgement

All resident fonts in this printer are licensed from Monotype Imaging Inc.

Helvetica, Palatino and Times are registered trademarks of Linotype-Hell AG. ITC Avant Garde Gothic, ITC Bookman, ITC ZapfChancery and ITC Zapf Dingbats are registered trademarks of International Typeface Corporation.

Monotype Imaging License Agreement

1 "Software" shall mean the digitally encoded, machine readable, scalable outline data as encoded in a special format as well as the UFST Software.

2 You agree to accept a non-exclusive license to use the Software to reproduce and display weights, styles and versions of letters, numerals, characters and symbols ("Typefaces") solely for your own customary business or personal purposes at the address stated on the registration card you return to Monotype Imaging. Under the terms of this License Agreement, you have the right to use the Fonts on up to three printers. If you need to have access to the fonts on more than three printers, you need to acquire a multi-user license agreement which can be obtained from Monotype Imaging. Monotype Imaging retains all rights, title and interest to the Software and Typefaces and no rights are granted to you other than a License to use the Software on the terms expressly set forth in this Agreement.

3 To protect proprietary rights of Monotype Imaging, you agree to maintain the Software and other proprietary information concerning the Typefaces in strict confidence and to establish reasonable procedures regulating access to and use of the Software and Typefaces.

4 You agree not to duplicate or copy the Software or Typefaces, except that you may make one backup copy. You agree that any such copy shall contain the same proprietary notices as those appearing on the original.

5 This License shall continue until the last use of the Software and Typefaces, unless sooner terminated. This License may be terminated by Monotype Imaging if you fail to comply with the terms of this License and such failure is not remedied within thirty (30) days after notice from Monotype Imaging. When this License expires or is terminated, you shall either return to Monotype Imaging or destroy all copies of the Software and Typefaces and documentation as requested.

6 You agree that you will not modify, alter, disassemble, decrypt, reverse engineer or decompile the Software.

7 Monotype Imaging warrants that for ninety (90) days after delivery, the Software will perform in accordance with Monotype Imaging-published specifications, and the diskette will be free from defects in material and workmanship. Monotype Imaging does not warrant that the Software is free from all bugs, errors and omissions.

8 THE PARTIES AGREE THAT ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY, ARE EXCLUDED.

9 Your exclusive remedy and the sole liability of Monotype Imaging in connection with the Software and Typefaces is repair or replacement of defective parts, upon their return to Monotype Imaging.

10 IN NO EVENT WILL MONOTYPE IMAGING BE LIABLE FOR LOST PROFITS, LOST DATA, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES CAUSED BY ABUSE OR MISAPPLICATION OF THE SOFTWARE AND TYPEFACES.

11 Massachusetts U.S.A. law governs this Agreement.

12 You shall not sublicense, sell, lease, or otherwise transfer the Software and/or Typefaces without the prior written consent of Monotype Imaging.

13 Use, duplication or disclosure by the Government is subject to restrictions as set forth in the Rights in Technical Data and Computer Software clause at FAR 252-227-7013, subdivision (b)(3)(ii) or subparagraph (c)(1)(ii), as appropriate. Further use, duplication or disclosure is subject to restrictions applicable to restricted rights software as set forth in FAR 52.227-19 (c)(2).

14 YOU ACKNOWLEDGE THAT YOU HAVE READ THIS AGREEMENT, UNDERSTAND IT, AND AGREE TO BE BOUND BY ITS TERMS AND CONDITIONS. NEITHER PARTY SHALL BE BOUND BY ANY STATEMENT OR REPRESENTATION NOT CONTAINED IN THIS AGREEMENT. NO CHANGE IN THIS AGREEMENT IS EFFECTIVE UNLESS WRITTEN AND SIGNED BY PROPERLY AUTHORIZED REPRESENTATIVES OF EACH PARTY. BY OPENING THIS DISKETTE PACKAGE, YOU AGREE TO ACCEPT THE TERMS AND CONDITIONS OF THIS AGREEMENT.

GPL

Firmware of this machine is using in part the GPL applied codes (www.fsf.org/copyleft/gpl.html).

Open SSLeay License

Copyright © 1998-2006 The OpenSSL Project. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1 Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2 Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3 All advertising materials mentioning features or use of this software must display the following acknowledgment:
"This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org/)"

4 The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to endorse or promote products derived from this software without prior written permission.
For written permission, please contact openssl-core@openssl.org.

5 Products derived from this software may not be called "OpenSSL" nor may "OpenSSL" appear in their names without prior written permission of the OpenSSL Project.

6 Redistributions of any form whatsoever must retain the following acknowledgment: "This product includes software developed by the

OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)"

THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Original SSLeay License

Copyright © 1995-1998 Eric Young (eay@cryptsoft.com) All rights reserved.

This package is an SSL implementation written by Eric Young (eay@cryptsoft.com). The implementation was written so as to conform with Netscapes SSL.

This library is free for commercial and non-commercial use as long as the following conditions are aheared to. The following conditions apply to all code found in this distribution, be it the RC4, RSA, lhash, DES, etc., code; not just the SSL code. The SSL documentation included with this distribution is covered by the same copyright terms except that the holder is Tim Hudson (tjh@cryptsoft.com).

Copyright remains Eric Young's, and as such any Copyright notices in the code are not to be removed.

If this package is used in a product, Eric Young should be given attribution as the author of the parts of the library used.

This can be in the form of a textual message at program startup or in documentation (online or textual) provided with the package.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgement:
   "This product includes cryptographic software written by Eric Young (eay@cryptsoft.com)"
   The word 'cryptographic' can be left out if the rouines from the library being used are not cryptographic related :-).

4 If you include any Windows specific code (or a derivative thereof) from the apps directory (application code) you must include an acknowledgement:
"This product includes software written by Tim Hudson (tjh@cryptsoft.com)"

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The licence and distribution terms for any publically available version or derivative of this code cannot be changed. i.e. this code cannot simply be copied and put under another distribution licence [including the GNU Public Licence.]

Compliance and Conformity

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- The use of a non-shielded interface cable with the referenced device is prohibited.

CAUTION — The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of FCC Rules and RSS-Gen of IC Rules.

Operation is subject to the following two conditions; (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

* The above warning is valid only in the United States of America.

Interface connectors

IMPORTANT Be sure to power off the printer before connecting or disconnecting an interface cable. For protection against static electricity discharge to the printer's internal electronics through the interface connector(s), cover any interface connector that is not in use with the protective cap supplied.

Note Use shielded interface cables.

CDRH Regulations

The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration implemented regulations for laser products on August 2, 1976. These regulations apply to laser products manufactured after August 1, 1976. Compliance is mandatory for products marketed in the United States. A label indicating compliance with the CDRH regulations must be attached to laser products marketed in the United States.

Canadian Department of Communications Compliance Statement

This Class B digital apparatus complies with Canadian ICES-003.

Avis de conformité aux normes du ministère des Communications du Canada

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Energy Saving Control Function

The device comes equipped with a **Sleep Mode** where printer functions remain in a waiting state but power consumption is still reduced to a minimum when there is no activity with the device within a set amount of time.

Sleep

The device automatically enters Sleep when 1 minute has passed since the device was last used. The amount of time of no activity that must pass before Sleep is activated may be lengthened. For more information, refer to *Sleep Timer (Sleep timer timeout time) on page 4-59*.

Automatic 2-Sided Print Function

This device includes 2-sided printing as a standard function. For example, by printing two 1-sided originals onto a single sheet of paper as a 2-sided print, it is possible to lower the amount of paper used. For more information, refer to *Duplex (Duplex printing) on page 4-38*.

Paper Recycling

This device supports the recycled paper which reduces the load on the environment. Your sales or service representative can provide information about recommended paper types.

Energy Star (ENERGY STAR®) Program

We have determined as a company participating in ENERGY STAR that this product has earned the ENERGY STAR.

Safety Conventions in This Guide

The sections of this guide and parts of the machine marked with symbols are safety warnings meant to protect the user, other individuals and surrounding objects, and ensure correct and safe usage of the machine. The symbols and their meanings are indicated below.

WARNING: Indicates that serious injury or even death may result from insufficient attention to or incorrect compliance with the related points.

CAUTION: Indicates that personal injury or mechanical damage may result from insufficient attention to or incorrect compliance with the related points.

Symbols

The △ symbol indicates that the related section includes safety warnings. Specific points of attention are indicated inside the symbol.

.... [General warning]

.... [Warning of danger of electrical shock]

.... [Warning of high temperature]

The ⃠ symbol indicates that the related section includes information on prohibited actions. Specifics of the prohibited action are indicated inside the symbol.

.... [Warning of prohibited action]

.... [Disassembly prohibited]

The ● symbol indicates that the related section includes information on actions which must be performed. Specifics of the required action are indicated inside the symbol.

.... [Alert of required action]

.... [Remove the power plug from the outlet]

.... [Always connect the machine to an outlet with a ground connection]

Please contact your service representative to order a replacement if the safety warnings in this Operation Guide are illegible or if the guide itself is missing (fee required).

Environment

The service environmental conditions are as follows:

- Temperature: 50 to 90.5 °F (10 to 32.5 °C)
- Humidity: 15 to 80 %

However, adverse environmental conditions may affect the image quality. Avoid the following locations when selecting a site for the machine.

- Avoid locations near a window or with exposure to direct sunlight.
- Avoid locations with vibrations.
- Avoid locations with drastic temperature fluctuations.
- Avoid locations with direct exposure to hot or cold air.
- Avoid poorly ventilated locations.

If the floor is delicate against casters, when this machine is moved after installation, the floor material may bedamaged.

During printing, some ozone is released, but the amount does not cause any ill effect to one's health. If, however, the machine is used over a long period of time in a poorly ventilated room or when printing an extremely large number of copies, the smell may become unpleasant. To maintain the appropriate environment for print work, it is suggested that the room be properly ventilated.

Cautions for Toner Handling

- **Do not** incinerate toner and toner containers. Dangerous sparks may cause burn.
- **Never** open the toner container.
- **Do not** inhale the toner.
- If you get toner on your hands, **do not** rub your eyes or touch your mouth. Wash the toner from your hands.
- For the disposal of the old toner container, consult your service technician or dispose of the toner or toner containers in accordance with Federal, State and Local rules and regulations.

About the Operation Guide

This Operation Guide has the following chapters:

Chapter 1 - Machine Parts

Explains the names of parts.

Chapter 2 - Printing Operation

Explains how to print from your workstation.

Chapter 3 - Handling Paper

Explains how to choose, handle and load paper.

Chapter 4 - Using the Operation Panel

Explains how to use the operation panel to configure the printer.

Chapter 5 - Maintenance

Explains how to replace the toner container and how to care for your printer.

Chapter 6 - Troubleshooting

Explains how to handle printer problems that may occur, such as paper jams.

Appendix

Explains the available printer interfaces, the optional products and the printer's specifications.

Conventions

This manual uses the following conventions.

Convention	Description	Example
Italic Typeface	Used to emphasize a key word, phrase or reference to additional information.	To replace the toner container, refer to *Toner Container Replacement on page 5-2.*
Bold	Used to denote buttons on the software.	To start printing, click **OK**.
Bracket Bold	Used to denote operation panel keys.	Press **[GO]** to resume printing.
Note	Used to provide additional or useful information about a function or feature.	**Note** Check with your network administrator for the network address settings.
Important	Used to provide important information.	**IMPORTANT** Ensure paper is not folded, curled, or damaged.
Caution	Cautions are statements that suggest *mechanical* damage as a result of an action.	**CAUTION** Do not pull the cassette out when holding the front of the machine.
Warning	Used to alert users to the possibility of *personal* injury.	**WARNING** High voltage is present in the charger section.

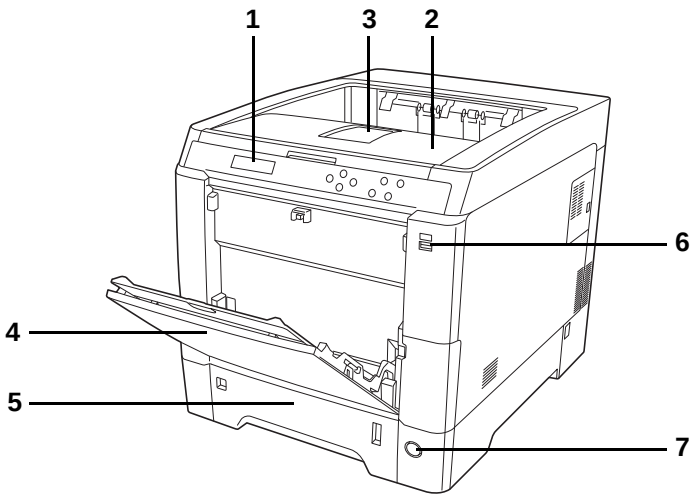
1 Machine Parts

This chapter provides explanations and illustrations for you to determine the parts and their functions. Try to be familiar with the names and functions of these parts for correct use and optimal performance.

This chapter contains explanations on the following topics:

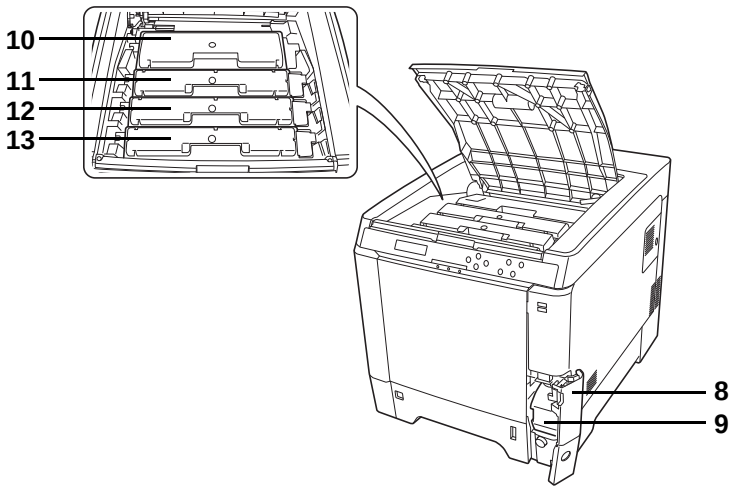
Components at the Front of the Printer **1-2**
Internal Components **1-2**
Components at the Rear of the Printer **1-3**
Operation Panel **1-4**

Components at the Front of the Printer

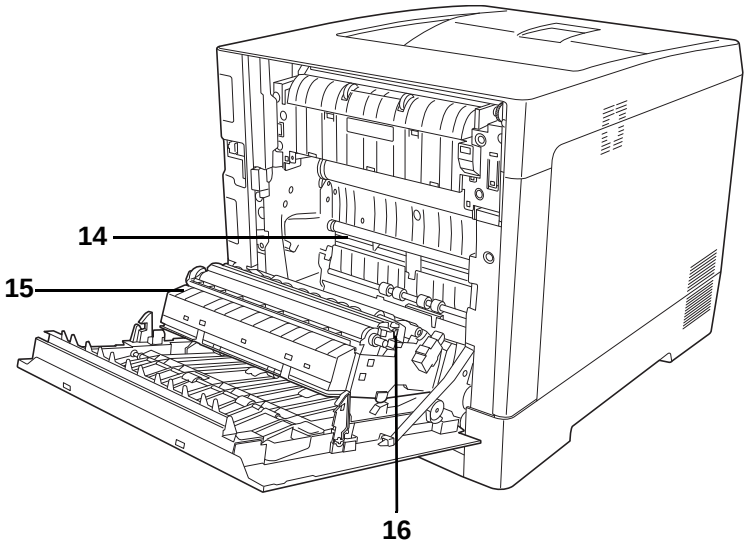


1 Operation Panel
2 Top Cover (Top Tray)
3 Paper Stopper
4 MP (Multi-Purpose) Tray
5 Paper Cassette
6 USB Memory Slot
7 Power Switch

Internal Components

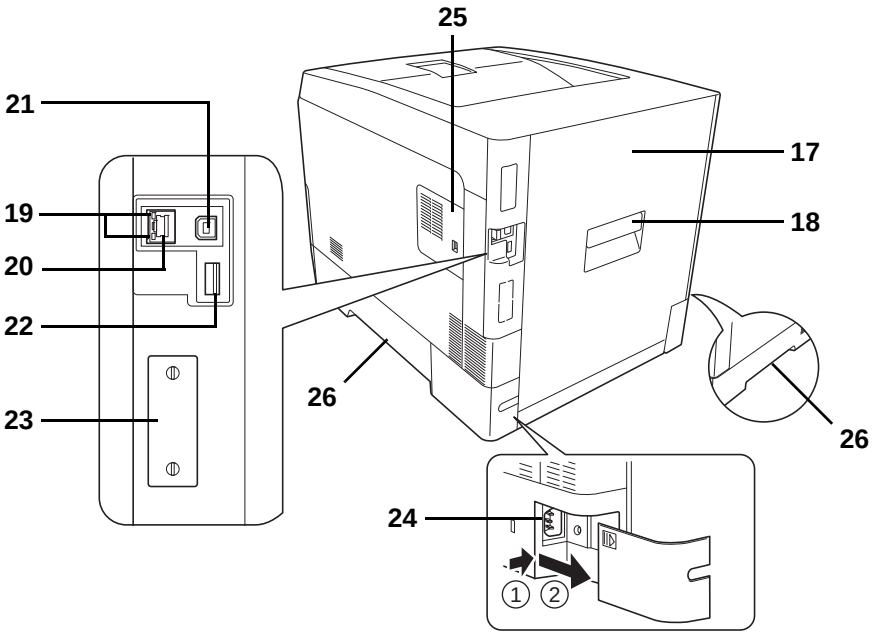


8 Waste Toner Box Cover
9 Waste Toner Box
10 Black Toner Container (K)
11 Magenta Toner Container (M)
12 Cyan Toner Container (C)
13 Yellow Toner Container (Y)



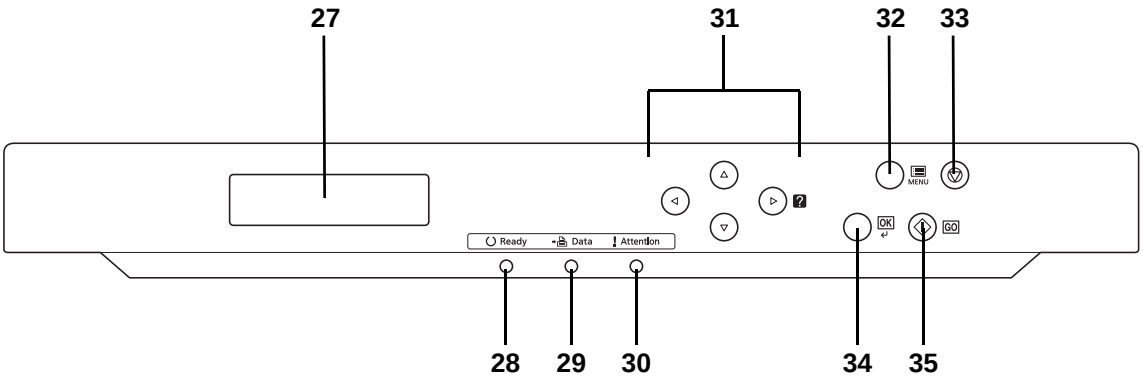
14 Paper Transfer Unit
15 Paper Ramp
16 Duplex Unit

Components at the Rear of the Printer



17 Rear Cover
18 Rear Cover Lever
19 Network Indicators
20 Network Interface Connector
21 USB Interface Connector
22 USB Memory Slot (d-Color P2026 only)
23 Option Interface Slot
24 Power Cord Connector
25 Right Cover
26 Carrying Handles

Operation Panel



27 Message Display
28 Ready Indicator
29 Data Indicator
30 Attention Indicator
31 Arrow Keys
32 [MENU] Key
33 [Cancel] Key
34 [OK] Key
35 [GO] Key

2 Printing Operation

This chapter contains explanations on the following topics:

Changing Network Interface Parameters **2-2**
Printing a Status Page **2-3**
Embedded Web Server **2-3**
Installing the Printing System Driver **2-4**
Printing from Application Software **2-10**
Status Monitor **2-11**
Uninstalling Software (Windows PC) **2-15**

Changing Network Interface Parameters

This printer supports TCP/IP, TCP/IP (IPv6), NetWare, AppleTalk, IPP, SSL Server and the IPSec protocols and Security Level.

The table below shows the items required for each of the settings.

Configure the printer's network parameters as appropriate for your PC and your network environment.

For details of the procedure, refer to the *Using the Operation Panel on page 4-1*.

Note When Embedded Web Server is used, network parameters and security settings can be conveniently changed and checked from your PC. For more information, refer to *Embedded Web Server on page 2-3*.

Menu	Submenu			Setting
Network	TCP/IP Set.	TCP/IP		On/Off
		IPv4 Setting	DHCP	On/Off
			Auto-IP	On/Off
			IP Address	IP address
			Subnet Mask	IP address
			Gateway	IP address
			Bonjour	On/Off
		IPv6 Setting	TCP/IP (IPv6)	On/Off
			RA (Stateless)	On/Off
			DHCPv6	On/Off
Security	Network Security	Netware		Off/On Frame type
		AppleTalk		On/Off
		IPP		On/Off
		SSL Setting	SSL	On/Off
			IPP over SSL	On/Off
			HTTPS	On/Off
		IPSec		On/Off
		Thin Print Setting†	Thin Print	On/Off
			Thin Print over SSL	On/Off

†. Thin Print is only supported in Europe (option).

Note After all network related settings have been done, turn the machine **OFF** and **ON** again. This is mandatory to make the settings effective!

Printing a Status Page

After completing the network settings, print a status page. The status page allows you to confirm a range of information, including network addresses and network protocols.

To print a status page, select `Print Status Page` from the Report Print menu.

Refer to *Report Print on page 4-11* for detailed information.

Embedded Web Server

Embedded Web Server is a tool that is accessed from a PC using a web browser to let you manage and configure settings for the print system. You can check the printer status and current settings, and change network and security settings.

Main Items in Embedded Web Server

	Main Items
Basic	• Device settings such as Time and Operation Panel Language settings. • Basic Network settings such as IP Address and DHCP settings. • Device Security settings such as Lock Operation Panel and Interface Block settings. • Network Security settings such as protocol restriction and certificate settings. Other settings
Printer	• Printing Function settings such as Default Printer Resolution and Copy Count settings.
Jobs	• Information on job status and job logs.
Document Box	• Document Box settings such as addition and deletion of a document box and deletion of documents in a document box.
Advanced	• Advanced settings for network protocols such as TCP/IP, and NetWare. • Management settings such as authentication and LDAP settings. • Advanced settings for network security such as SSL and IPSec. Other settings

For details, refer to the *Embedded Web Server Operation Guide*.

Installing the Printing System Driver

Ensure the printer is plugged in and connected to the PC before installing the printing system driver from the CD-ROM.The printing system driver is necessary to print data created in an application.

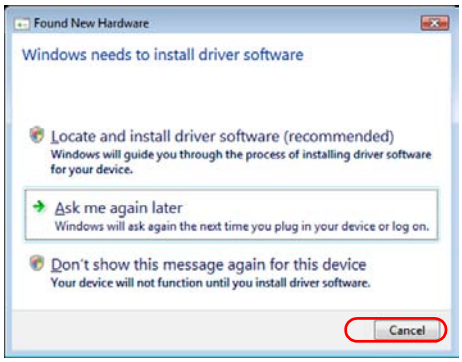
For details on the printing system driver, refer to *Printing Driver User Guide* on the CD-ROM

Installing the Software in Windows

If you are connecting this printer to a Windows PC, follow the next steps to install the printing system driver. The example shows you how to connect your printer to a Windows 7 PC.

Note In Windows 7/Vista/XP/2000 and Windows Server 2008/2003, you must be logged on with administrator privileges.

You can use either Express Mode or Custom Mode to install the software. Express Mode automatically detects connected printers and installs the required software. Use Custom Mode if you want to specify the printer port and select the software to be installed.


Found New Hardware
Windows needs to install driver software
Locate and install driver software (recommended)
Windows will guide you through the process of installing driver software for your device.
Ask me again later
Windows will ask again the next time you plug in your device or log on.
Don't show this message again for this device
Your device will not function until you install driver software.
Cancel

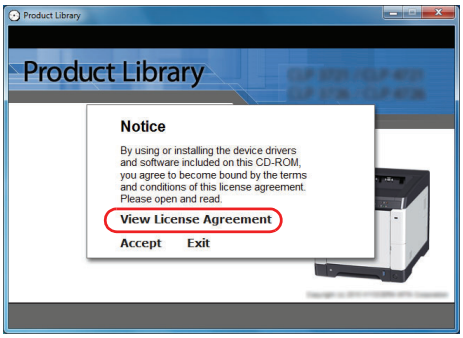
1 Turn on the computer and start up Windows.

If the Welcome to the Found New Hardware Wizard dialog box displays, select **Cancel**.

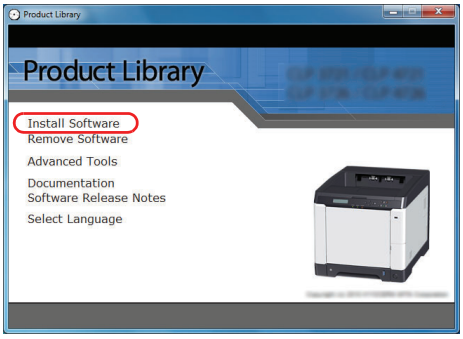
2 Insert the CD-ROM supplied with the printer into the optical drive of the PC. In Windows 7, Windows Server 2008 and Windows Vista, the user account management window appears. Click **Yes** (**Allow**).

The installation program launches and the main menu appears..

Note If the software install wizard does not launch automatically, open the CD-ROM window in Windows Explorer and double-click **Setup.exe**.


Product Library
Product Library
Notice
By using or installing the device drivers and software included on this CD-ROM, you agree to become bound by the terms and conditions of this license agreement. Please open and read.
View License Agreement
Accept
Exit

3 Click **View License Agreement** and read the License Agreement. Click **Accept**.



4 Click **Install software**.

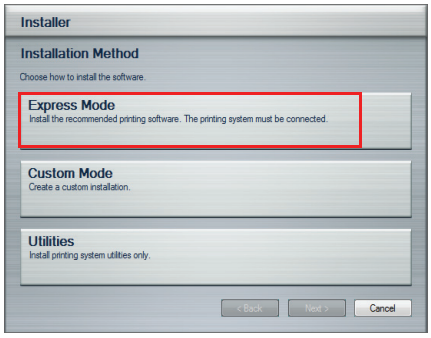
The software install wizard starts up. Click **Next**.

From this point, the procedure differs depending on your version of Windows and your connection method. Proceed to the correct procedure for your connection type.

- Express Mode
- Custom Mode

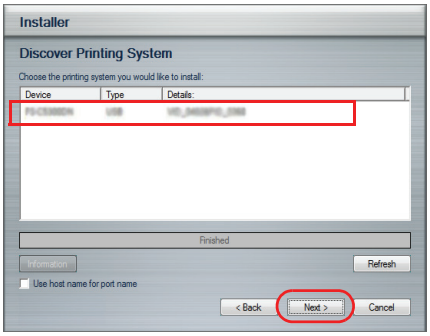
Express Mode

In Express Mode, the installer automatically detects the printer when it is turned on. Use Express Mode for standard connection methods.



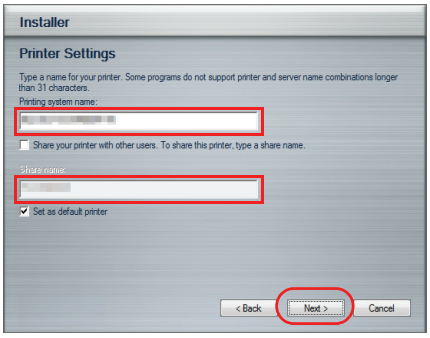
1 In the installation method selection window, select **Express Mode**. The print system detection window appears and the installer detects the connected printers. If the installer does not detect a print system, check that the print system is connected via USB or a network and that it is turned on. Return to the print system detection window and click **Refresh**.

For more information about how to install the driver, refer to *Custom Installation* in *Printing Driver User Guide* on the CD-ROM.



2 Select the print system to be installed and click **Next**.

Note In Windows 7 and Windows Vista with a USB connection, a driver installation will be made from the Microsoft Windows Update site if a certified driver is available and the system is connected to the web. We recommend you continue with the steps to install the Printing Sysytem Driver for an expanded feature set. In Windows, if the **Found New Hardware Wizard** dialog box appears during the installation process, click **Cancel**. If the **Hardware Installation** warning dialog box appears, click **Continue Anyway**.


Installer
Printer Settings
Type a name for your printer. Some programs do not support printer and server name combinations longer than 31 characters.
Printing system name:
Share your printer with other users. To share this printer, type a share name.
Share name:
Set as default printer
< Back
Next >
Cancel

3 You can customize the print system name in the installation settings window. This will be the name displayed in the Printer window and in the printer lists displayed in applications. Specify whether to share the print system or set the print system as an existing printer and then click **Next**.

IMPORTANT Step 3 only appears if the print system is connected via a network. It does not appear if the print system is connected via a USB.

4 A window appears in which you can check the settings. Check the settings carefully and then click **Install**.

Note If the Windows security window appears, click **Install this driver software**.

5 A message appears saying that the Installation Completed. Click **Finish** to exit the printer installation wizard and return the CD-ROM main menu.

Note To use the Status Monitor, check **Enable Status Monitor**. For information on the Status Monitor, refer to *Status Monitor on page 2-11*.

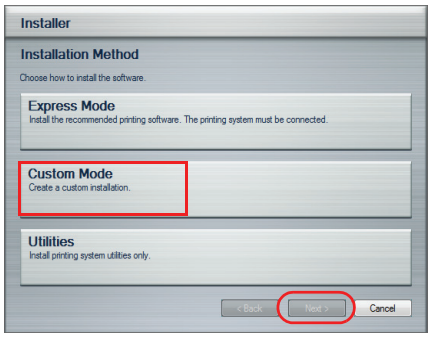
If the device setup dialog box appears after you click **Finish**, you can specify the settings for items such as optional features installed in the print system. You can also specify the device settings after you exit the installation. For details, refer to *Device Settings* in *Printing Driver User Guide* on the CD-ROM.

This completes the printing system driver installation procedure. Follow the on-screen instructions to restart the system, if required.

Custom Mode

Use Custom Mode if you want to specify the printer port and select the software to be installed.

For example, if you do not want fonts installed on your computer to be overwritten, select **Custom Mode** and deselect the **Fonts** checkbox on the Utility tab of the Custom Install screen.



1 Select **Custom Mode**.

2 Following the instructions in the install wizard window, select the software packages to be installed and the specify the port, etc.

For details, refer to *Custom Installation* in *Printing Driver User Guide* on the CD-ROM.

Installation on a Macintosh

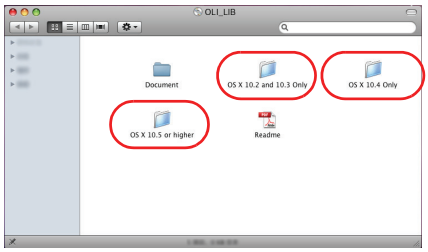
Note Before installing the software, check the following settings on the printer:

- *Emulation (Setting the emulation) on page 4-40* is set to KPDL or KPDL(Auto).
- *Bonjour (Bonjour setting) on page 4-49* is set to On.

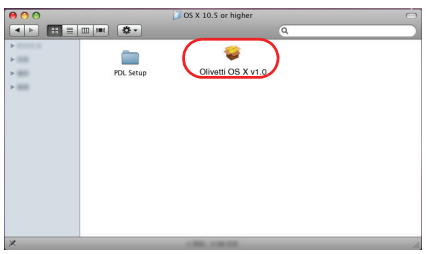
1 Turn on the printer and the Macintosh.

2 Insert the included CD-ROM (**Product Library**) into the CD-ROM drive.

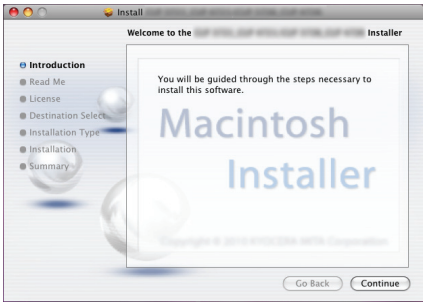
3 Double-click the CD-ROM icon.



4 Double-click either **OS X 10.2 and 10.3 Only**, **OS X 10.4 Only** or **OS X 10.5 or higher** depending on your Mac OS version.



5 Double-click **Olivetti OS X x.x**.



6 The printing system driver installation program starts up.

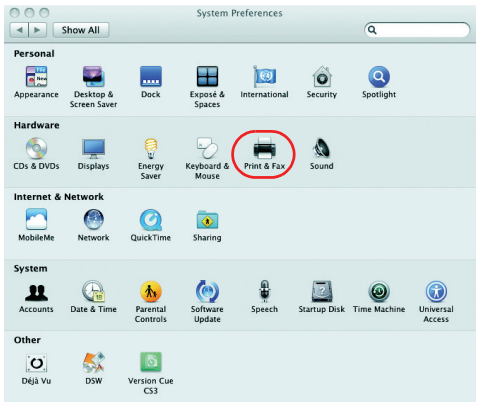
7 Choose **Select Destination**, **Installation Type** and then install the printing system driver as directed by the instructions in the installation software.

Note In addition to **Standard Install**, the **Installation Type** options include **Custom Install**, which allows you to specify the components to be installed.

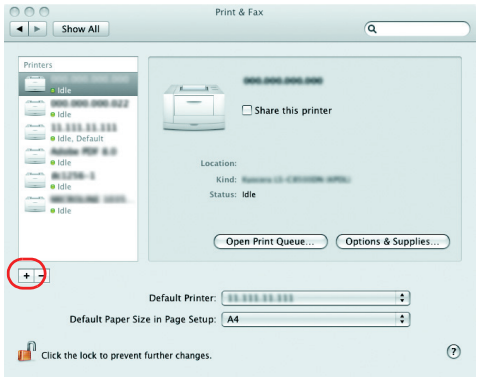
IMPORTANT In the Authenticate screen, enter the name and password used to log in to the operating system.

This completes the printing system driver installation. Next, specify the print settings.

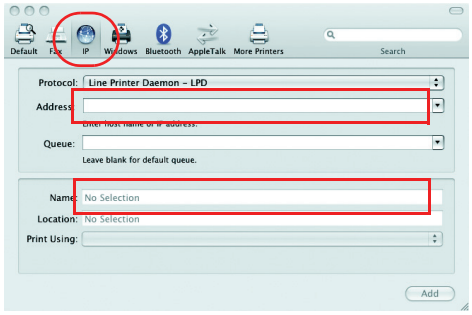
If an IP, AppleTalk, or Bonjour connection is used, the settings below are required. If a USB connection is used, the printer is automatically recognized and connected.



8 Open **System Preferences** and click **Print & Fax**.

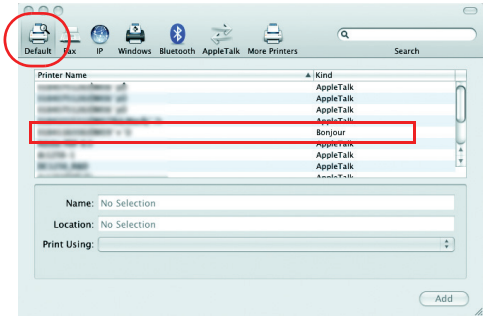


9 Click the plus symbol (+) to add the installed printing system driver.

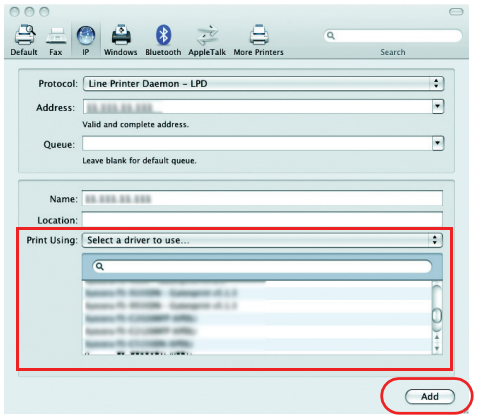


10 Click the IP icon for an IP connection or the AppleTalk icon for an AppleTalk connection and then enter the IP address and printer name.

Note AppleTalk is not supported by OS X 10.6.

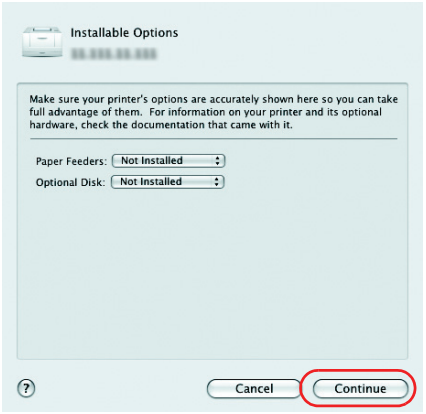


For a Bonjour connection, click the default icon and select the printer for which **Bonjour** appears in **Kind**.

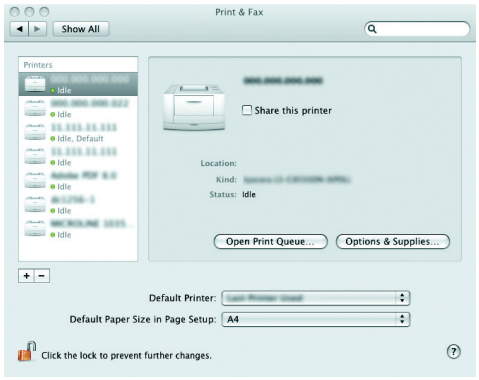


11 Select the installed printing system driver and click **Add**.

Note When a Bonjour connection is used, the printing system driver is automatically selected.


Installable Options
Make sure your printer's options are accurately shown here so you can take full advantage of them. For information on your printer and its optional hardware, check the documentation that came with it.
Paper Feeders: Not Installed
Optional Disk: Not Installed
Cancel
Continue

12 Select the options available for the printer and click **Continue**.



13 The selected printer is added. This completes the printer setup procedure.

Printing from Application Software

The steps required to print a document created with an application are explained below.

1 Load the paper required into the paper cassette.

2 From the application File menu, select **Print**. The Print dialog box displays.

3 Select the printer to be used from the printer list.

4 Use **Number of copies** to enter the number of prints required.

5 To start printing, click **OK**.

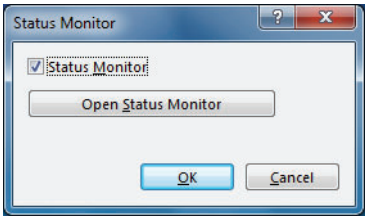
Note For information on how to use the printing system driver software, refer to *Printing System Driver User Guide.*

Status Monitor

The Status Monitor monitors the printer status and provides an ongoing reporting function. It also allows you to specify and modify settings for printers not included in the Printing Sysytem Driver.

The Status Monitor is installed automatically during Printing Sysytem Driver installation.

Accessing the Status Monitor



To display the **Status Monitor** dialog box, click the **Printer Preferences** button in the printing system driver properties and click the **Status Monitor** button on the **Advanced** tab.

- **Status Monitor**:
  The Status Monitor appears during printing. If multiple printers are used for printing, the same number of Status Monitors are opened.
- **Open Status Monitor**:
  This opens the Status Monitor.

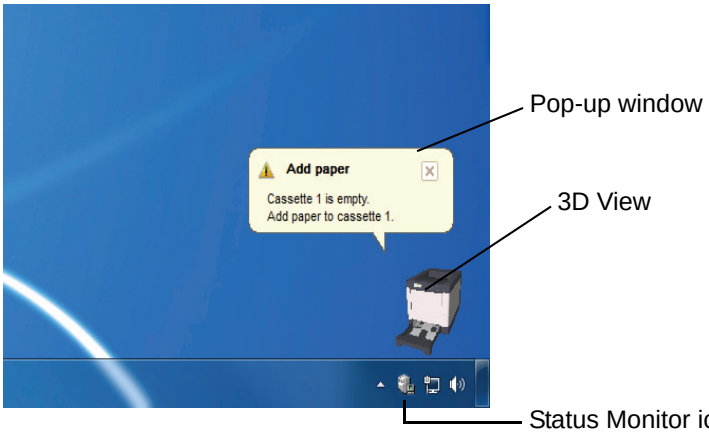
Exiting the Status Monitor

Use either of the methods listed below to exit the Status Monitor.

- Exit manually:
  Right-click the Status Monitor icon in the taskbar and select **Exit** in the menu to exit the Status Monitor.
- Exit automatically:
  The Status Monitor automatically shuts down after 5 minutes if it is not being used.

Screen Overview

The screen overview of the Status Monitor is as follows.



Pop-up window

If an information notification event occurs, a pop-up window appears. This window only appears when the 3D View is open on the desktop.

3D View

This shows the status of the monitored printer as a 3D image. You can choose whether to show or hide the 3D view from the menu displayed when you right-click the Status Monitor icon.

If an information notification event occurs, the 3D view and an alert sound are used to notify you. For information on the sound notification settings, refer to *Status Monitor Settings on page 2-13*.

Status Monitor icon

While the **Status Monitor** is running, its icon is displayed in the taskbar notification area. When you position the cursor over the icon, the printer name appears. Right-clicking the **Status Monitor icon** allows you to set the options below.

Show the status monitor (Hide the status monitor)

Displays or hides the **Status Monitor icon**.

Configure...

If the printer is connected to a TCP/IP network and has its own IP address, use a web browser to access the Embedded Web Server to modify or confirm the network settings. For more information, refer to the *Embedded Web Server Operation Guide*.

Preferences...

Specify the **Sound Notification** and **Appearance** settings for the Status Monitor. For details, refer to *Status Monitor Settings on page 2-13*.

Exit

Exits the **Status Monitor**.

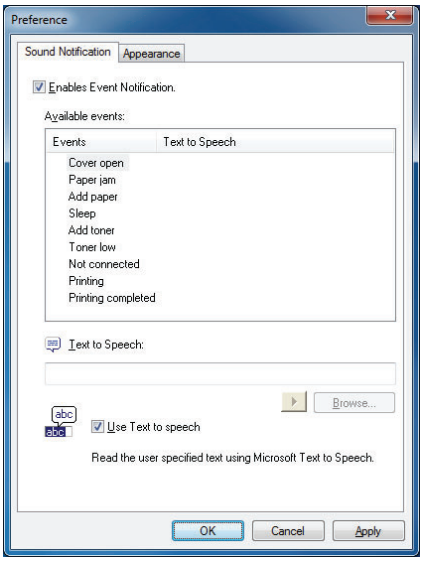
Status Monitor Settings

Right-click the Status Monitor icon and select **Preference** from the pop-up menu to open a window with two tabs. Status Monitor settings can be configured on these tabs.

Sound Notification Tab

The Sound Notification tab contains the following items.

IMPORTANT To confirm the settings on Sound Notification tab, the computer requires the sound capabilities such as sound card and speaker.



Enable Event Notification

Select whether audible notification is performed when an error in the event list occurs.

Sound file

A sound file can be selected if you require an audible notification. Click **Browse** to search for the sound file.

Use Text to speech

Select this check box to enter text you would like to hear played for events. Although a sound file is unnecessary, this function is applicable for Windows XP or later.

To use this function, follow these steps.

1 Select **Enable Event Notification**.

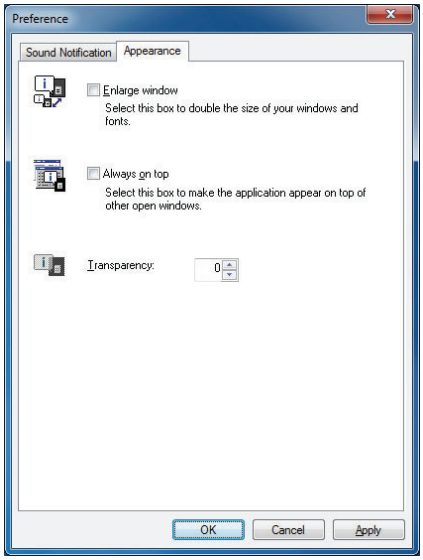
2 Select an event to use with the text to speech function in Available events.

3 Click Browse to notify the event by sound file.

Note The available file format is WAV.

Select **Use Text to speech** to speech the text entered in Text to speech box when an event occurred.

4 Click **Play** to confirm the sound or text is played correctly.



Appearance Tab

The Appearance tab is contains the following items.

Enlarge window

Selecting this checkbox doubles the size and font of 3D images and pop-up windows.

Always on top

Selecting this checkbox positions 3D images and pop-up windows in front of other active windows. When this setting is enabled for multiple status monitors, 3D images are stacked.

Transparency

Displays 3D views and pop-up windows as transparent windows. The transparency can be set from 0% (no transparency) to 50%.

Uninstalling Software (Windows PC)

The software can be uninstalled (removed) using the CD-ROM (Product Library) supplied with the printer.

IMPORTANT On Macintosh computers, because the printer settings are specified using a PPD (PostScript Printer Description) file, the software cannot be uninstalled using the CD-ROM (Product Library).

1. Exit all active software applications.
2. Insert the enclosed CD-ROM (Product Library) into the CD-ROM drive.
3. Following the procedure used to install the printing system driver, click **Remove Software**. The Uninstaller wizard appears.
4. Select the software package to remove.
5. Click **Uninstall**.

   Note When Network print Monitor or Network tool For Direct Printing is installed, separate uninstallers are launched for each application. Proceed with the uninstallation steps for each application as directed by the on-screen instructions.

   The uninstaller starts.
6. When Uninstall complete screen appears, click **Next**.
7. Select whether you restart your computer or not, click **Finish**.

   Note The software can be uninstalled from the Program menu.
   (In the case of Windows XP)
   Start the uninstaller by clicking **start** > **All Programs** > Olivetti > **Uninstall Printing System Library**, and uninstall the software.

3 Handling Paper

This chapter contains explanations on the following topics:

General Guidelines **3-2**
Selecting the Right Paper **3-4**
Paper Type **3-13**
Loading Paper **3-14**

General Guidelines

The machine is designed to print on standard copier paper (the type used in ordinary dry copier machines), but it can also accept a variety of other types of paper within the limits specified below.

Note The manufacturer assumes no liability for problems that occur when paper not satisfying these requirements is used.

Selection of the right paper is important. Using the wrong paper can result in paper jams, curling, poor print quality, and paper waste, and in extreme cases can damage the machine. The guidelines given below will increase the productivity of your office by ensuring efficient, trouble-free printing and reducing wear and tear on the machine.

Paper Availability

Most types of paper are compatible with a variety of machines. Paper intended for xerographic copiers can also be used with the machine.

There are three general grades of paper: *economy*, *standard*, and *premium*. The most significant difference between grades is the ease with which they pass through the machine. This is affected by the *smoothness*, *size*, and *moisture content* of the paper, and the way in which the paper is cut. The higher the grade of paper you use, the less risk there will be of paper jams and other problems, and the higher the level of quality your printed output will reflect.

Differences between paper from different suppliers can also affect the machine's performance. A high-quality printer cannot produce high-quality results when the wrong paper is used. Low-priced paper is not economical in the long run if it causes printing problems.

Paper in each grade is available in a range of basis weights (defined later). The traditional standard weights are 60 to 120 g/m² (16 to 32 pounds).

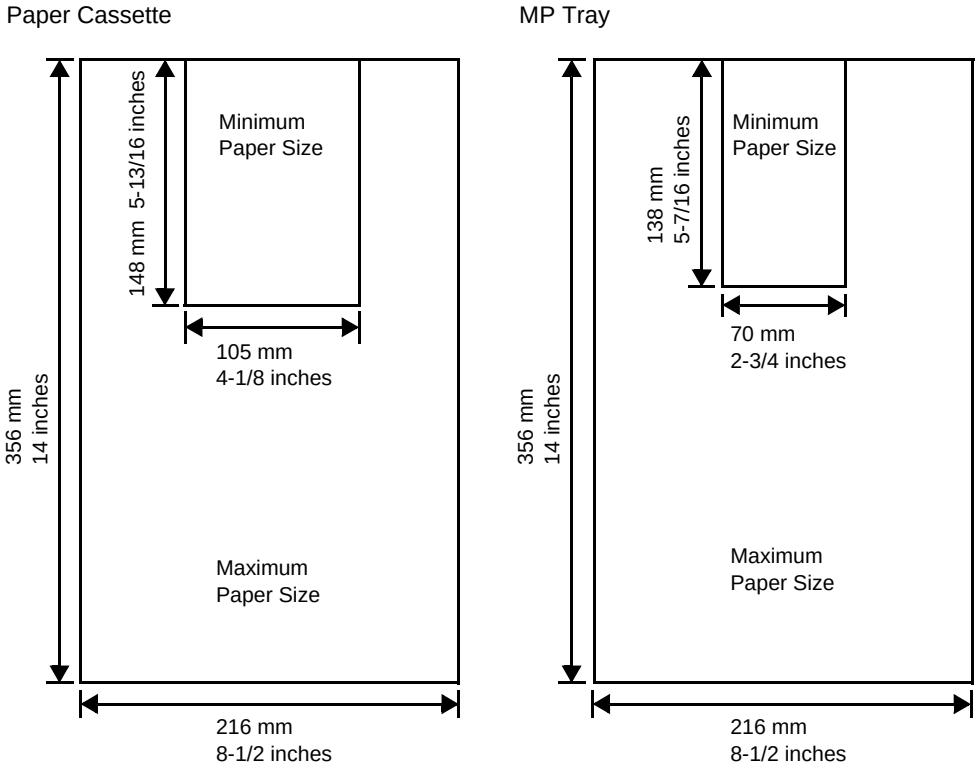
Paper Specifications

The following table summarizes the basic paper specifications. Details are given on the following pages.

Item	Specification
Weight	Cassette, PF-520 (optional): 60 to 163 g/m² (16 to 43 lb/ream) MP Tray, PF-530 (optional): 60 to 220 g/m² (16 to 59 lb/ream)
Thickness	0.086 to 0.110 mm (3.4 to 4.3 mils)
Dimensions	Refer to *Paper Sizes on page 3-4*
Dimensional accuracy	±0.7 mm (±0.0276 inches)
Squareness of corners	90° ±0.2°
Moisture content	4 % to 6 %
Direction of grain	Long grain
Pulp content	80 % or more

Minimum and Maximum Paper Sizes

The minimum and maximum paper sizes are as follows. For non standard paper such as transparency, labels, vellum, cardstock, envelope, coated and thick, the MP (Multi-Purpose) tray must be used.



Recommended Paper

The following products are recommended for use with the printer for optimum performance.

Size	Product	Weight
Letter, Legal	Hammermill LASER PRINT	90 g/m² (24 lb)
A4	NEUSIEDLER COLOR COPY	90 g/m²

Selecting the Right Paper

This section describes the guidelines for selecting paper.

Condition

Avoid using paper that is bent at the edges, curled, dirty, torn, embossed, or contaminated with lint, clay, or paper shreds.

Use of paper in these conditions can lead to illegible printing and paper jams, and can shorten the life of the machine. In particular, avoid using paper with a surface coating or other surface treatment. Paper should have as smooth and even a surface as possible.

Composition

Do not use paper that has been coated or surface-treated and contains plastic or carbon. The heat of fusing can cause such paper to give off harmful fumes.

Bond paper should contain at least 80 % pulp. Not more than 20 % of the total paper content should consist of cotton or other fibers.

Paper Sizes

Cassettes and the *MP tray* are available for the paper sizes listed in the table below. For details, including the paper sizes for the paper feeder (Optional paper feeder PF-520, PF-530) refer to *Cassette (1 to 4) Size (Setting the cassette paper size) on page 4-31*.

The dimensional tolerances are ±0.7 mm (±0.0276 inches) for the length and width. The angle at the corners must be 90° ±0.2°.

MP Tray Only	Size	Cassette or MP Tray	Size
Envelope Monarch	3-7/8 × 7-1/2 inches	Legal	8-1/2 × 14 inches
Envelope #10	4-1/8 × 9-1/2 inches	Letter	8-1/2 × 11 inches
Envelope #9	3-7/8 × 8-7/8 inches	ISO A4	210 × 297 mm
Envelope #6	3-5/8 × 6-1/2 inches	ISO A5	148 × 210 mm
Envelope DL	110 × 220 mm	ISO A6	105 × 148 mm
JIS B6	128 × 182 mm	Envelope C5	162 × 229 mm
Hagaki	100 × 148 mm	ISO B5	176 × 250 mm
OufukuHagaki	148 × 200 mm	JIS B5	182 × 257 mm
Youkei 2	114 × 162 mm	Statement	5-1/2 × 8-1/2 inches
Youkei 4	105 × 235 mm	Executive	7-1/4 × 10-1/2 inches
		Oficio II	8-1/2 × 13 inches
		Folio	210 × 330 mm
		16 kai	197 × 273 mm
Custom	Cassette: 105 to 216 mm × 148 to 356 mm (4-1/8 to 8-1/2 inches × 5-13/16 to 14 inches) MP Tray: 70 to 216 mm × 138 to 356 mm (2-3/4 to 8-1/2 inches × 5-7/16 to 14 inches)		

Smoothness

The paper should have a smooth, uncoated surface. Paper with a rough or sandy surface can cause voids in the printed output. Paper that is too smooth can cause multiple feeding and fogging problems. (Fogging is a gray background effect.)

Basis Weight

Basis weight is the weight of paper expressed in grams per square meter (g/m^2). Paper that is too heavy or too light may cause feed errors or paper jams as well as premature wear of the product. Uneven weight of paper, namely uneven paper thickness may cause multiple-sheet feeding or print quality problems such as blurring because of poor toner fusing.

The recommended basis weight is:

Cassette: 60 to 163 g/m^2
MP tray: 60 to 220 g/m^2
PF-520 (optional): 60 to 163 g/m^2
PF-530 (optional): 60 to 220 g/m^2

Paper Weight Equivalence Table

The paper weight is listed in pounds (lb) and metric grams per square meter (g/m^2). The shaded part indicates the standard weight.

U. S. Bond Weight (lb)	Europe Metric Weight (g/m^2)
16	60
17	64
20	75
21	80
22	81
24	90
27	100
28	105
32	120
34	128
36	135
39	148
42	157
43	163
47	176
53	199

Thickness

The paper used with the machine should be neither extremely thick nor extremely thin. If you are having problems with paper jams, multiple feeds, and faint printing, the paper you are using may be too thin. If you

are having problems with paper jams and blurred printing the paper may be too thick. The correct thickness is 0.086 to 0.110 mm (3.4 to 4.3 mils).

Moisture Content

Moisture content is defined as the percent ratio of moisture to the dry mass of the paper. Moisture can affect the paper's appearance, feed ability, curl, electrostatic properties, and toner fusing characteristics.

The moisture content of the paper varies with the relative humidity in the room. When the relative humidity is high and the paper absorbs moisture, the paper edges expand, becoming wavy in appearance. When the relative humidity is low and the paper loses moisture, the edges shrink and tighten, and print contrast may suffer.

Wavy or tight edges can cause jams and alignment anomalies. The moisture content of the paper should be 4 to 6 %.

To ensure correct moisture content, it is important to store the paper in a controlled environment. Some tips on moisture control are:

- Store paper in a cool, dry location.
- Keep the paper in its wrapping as long as possible. Re-wrap paper that is not in use.
- Store paper in its original carton. Place a pallet etc. under the carton to separate it from the floor.
- After removing paper from storage, let it stand in the same room as the machine for 48 hours before use.
- Avoid leaving paper where it is exposed to heat, sunlight, or damp.

Note When using coated paper, be aware that the sheets will stick together in a very humid environment.

Paper Grain

When paper is manufactured, it is cut into sheets with the grain running parallel to the length (long grain) or parallel to the width (short grain). Short grain paper can cause feeding problems in the machine. All paper used in the machine should be long grain.

Other Paper Properties

Porosity: Indicates the density of paper fiber.

Stiffness: Limp paper may buckle in the machine, resulting in paper jams.

Curl: Most paper naturally tends to curl one way if left unpacked.

Electrostatic discharge: During the printing process the paper is electrostatically charged to attract the toner. The paper must be able to release this charge so that printed sheets do not cling together in the *Output Tray*.

Whiteness: The contrast of the printed page depends on the whiteness of the paper. Whiter paper provides a sharper, brighter appearance.

Quality control: Uneven sheet size, corners that are not square, ragged edges, welded (uncut) sheets, and crushed edges and corners can cause the machine to malfunction in various ways. A quality paper supplier should take considerable care to ensure that these problems do not occur.

Packaging: Paper should be packed in a sturdy carton to protect it from damage during transport. Quality paper obtained from a reputable supplier is usually correctly packaged.

Note You might see the printer emitting steam in the area around the top tray if you use damp paper, but it is safe to continue printing.

Special Paper

The following types of special paper can be used:

Paper Type to be Used	Paper Type to be Selected
Thin paper (60 to 64 g/m²)	VELLUM
Thick paper (90 to 220 g/m²)	THICK
Colored paper	COLOR
Recycled paper	RECYCLED
Overhead projector transparencies	TRANSPARENCY
Postcards	CARDSTOCK
Envelopes	ENVELOPE
Label	LABELS
Coated paper	COATED

Use paper that is sold specifically for use with copiers or printers (heat-fusing type). When using transparencies, labels, thin paper, envelopes, postcards, or thick paper, feed the paper from the *MP tray*. For details, refer to *Paper Source (Selecting the paper feed source) on page 4-37*.

Since the composition and quality of special paper vary considerably, special paper is more likely than white bond paper to give trouble during printing. No liability will be assumed if moisture and so forth given off during printing on special paper causes harm to the machine or operator.

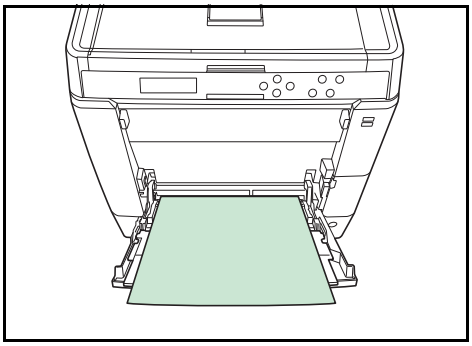
Note Before purchasing any type of special paper, test a sample on the machine and check that printing quality is satisfactory.

Transparency

Transparencies must be able to withstand the heat of fusing during the printing process. The recommended transparency product is 3M CG3700 (Letter, A4).

The table below lists the specifications for transparency:

Item	Specification
Tolerance of heat	Must tolerate at least 190 °C (374 °F)
Thickness	0.100 to 0.110 mm (3.9 to 4.3 mils)
Material	Polyester
Dimensional accuracy	±0.7 mm (±0.0276 inches)
Squareness of corners	90° ±0.2°



To prevent printing problems, feed transparencies into the printer one sheet at a time from the *MP tray*. Always load the transparencies vertically (with the long edge towards the printer).

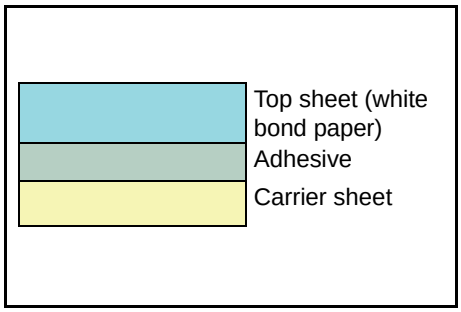
If the transparencies have rough edges on the back, it may cause a paper jam. Remove the rough edges, reverse the sides or feed the sheet from the opposite edge.

When unloading transparencies (e.g., for clearing jams), hold them carefully by the edges to avoid leaving fingerprints on them.

Labels

Labels must be fed from the *MP tray* or optional paper feeder PF-530.

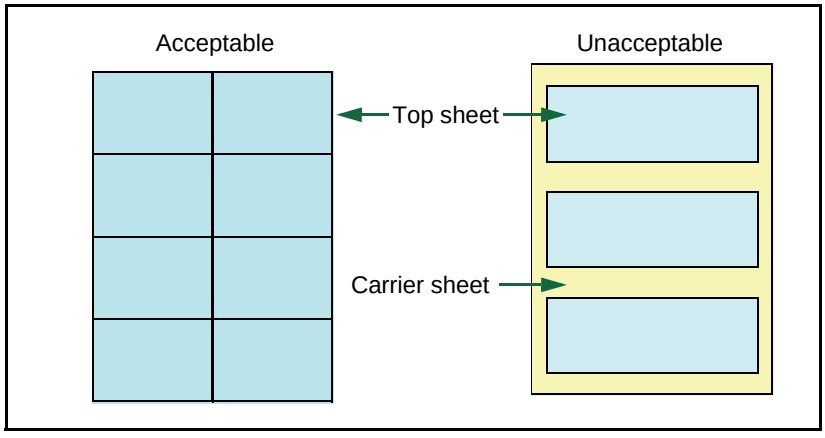
The basic rule for printing on adhesive labels is that the adhesive must never come into contact with any part of the machine. Adhesive paper sticking to the drum or rollers will damage the machine.



Label paper has a structure comprising of three layers, as shown in the diagram. The top sheet is printed on. The adhesive layer consists of pressure-sensitive adhesives. The carrier sheet (also called the linear or backing sheet) holds the labels until used. Due to the complexity of its composition, adhesive-backed label paper is particularly likely to give printing problems.

Adhesive label paper must be entirely covered by its top sheet, with no spaces between the individual labels. Labels with spaces in between are liable to peel off, causing serious paper jam problems.

Some label paper is manufactured with an extra margin of top sheet around the edge. Do not remove the extra top sheet from the carrier sheet until after printing is finished.

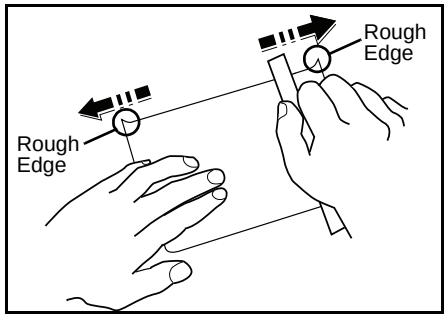


The table below lists the specifications for adhesive label paper.

Item	Specification
Weight of top sheet	44 to 74 g/m² (12 to 20 lb/ream)
Composite weight	104 to 151 g/m² (28 to 40 lb/ream)
Thickness of top sheet	0.086 to 0.107 mm (3.9 to 4.2 mils)
Composite thickness	0.115 to 0.145 mm (4.5 to 5.7 mils)
Moisture content	4 to 6 % (composite)

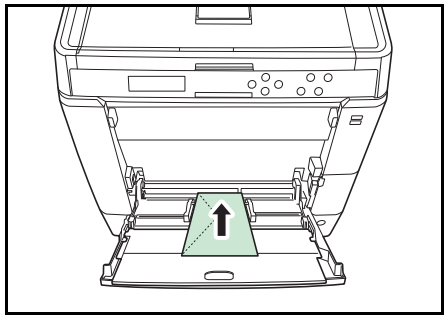
Postcards

Fan the stack of postcards and align the edges before loading them in the MP tray. Make sure the postcards you are going to set are not curled. Feeding curled postcards may cause paper jams.



Some postcards have rough edges on the back (those are created when the paper is cut). In this case, put the postcards on a flat place and rub the edges with, for example, a ruler to smooth them.

Envelopes



Envelopes should always be fed from the MP tray, with the print-side up. Envelopes must be fed from the MP tray or optional paper feeder PF-530.

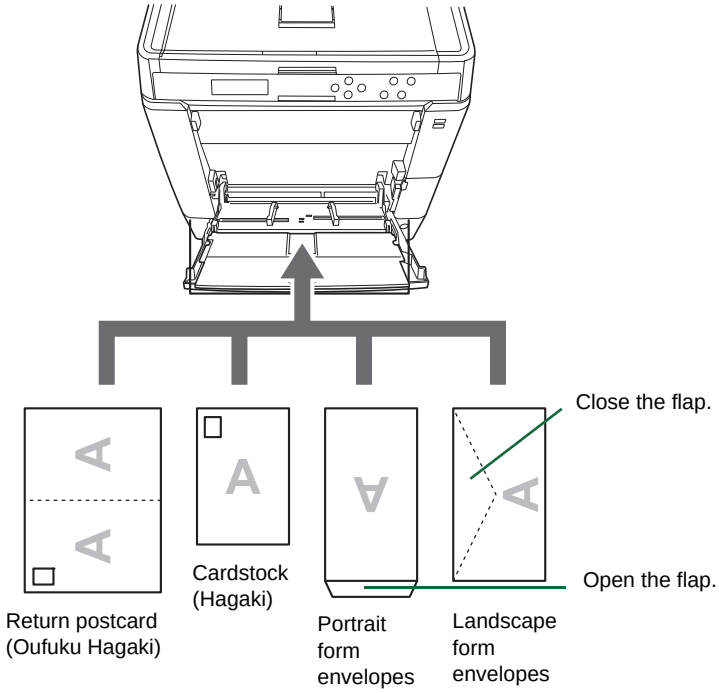
Since the composition of an envelope is more complex than that of ordinary paper, it is not always possible to ensure consistent printing quality over the entire envelope surface.

Normally, envelopes have a diagonal grain direction. Refer to *Paper Grain on page 3-6*. This direction can easily cause wrinkles and creases when envelopes pass through the printer. Before purchasing envelopes, make a test print to check whether the printer accepts the envelope.

- Do not use envelopes that have an encapsulated liquid adhesive.
- Avoid a long printing session for envelopes only. Extended envelope printing can cause premature printer wear.
- If jams occur, try setting a lesser number of envelopes on the MP tray.
- To avoid jams caused by curled envelopes, stack no more than 10 printed envelopes on the top tray.

When you load envelopes or cardstock in the MP tray

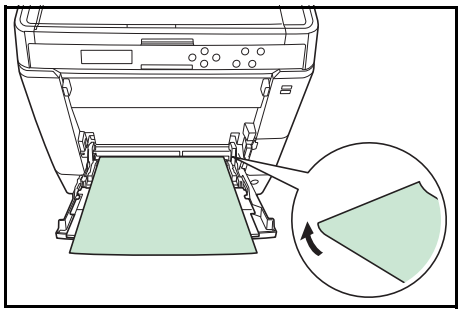
Load envelope with the print side facing up.



Note Use unfolded return postcard (Oufuku Hagaki).

Thick Paper

Fan the stack of paper and align the edges before loading them in the MP tray. Some types of paper have rough edges on the back (those are created when the paper is cut). In this case, put the paper on a flat place and rub the edges once or twice with, for example, a ruler to smooth them. Feeding rough edged paper may cause paper jams.



Note If the paper jams even after you smooth it out, load the paper in the *MP tray* with the leading edge raised up a few millimeters as shown in the illustration.

If you use thick paper quite often, we recommend to use optional paper feeder PF-530.

Colored Paper

Colored paper should satisfy the same conditions as white bond paper, refer to *Paper Specifications on page 3-2*. In addition, the pigments used in the paper must be able to withstand the heat of fusing during the printing process (up to 200 °C or 392 °F).

Note If you use colored paper quite often, we recommend to use optional paper feeder PF-530.

Preprinted Paper

Preprinted paper should satisfy the same conditions as white bond paper, refer to *Paper Specifications on page 3-2*. The preprinted ink must be able to withstand the heat of fusing during the printing process, and must not be affected by silicone oil. Do not use paper with any kind of surface treatment, such as the type of paper commonly used for calendars.

Recycled Paper

Select recycled paper that meets the same specifications as the white bond paper except for whiteness, refer to *Paper Specifications on page 3-2*.

Note Before purchasing recycled paper, test a sample on the machine and check that the printing quality is satisfactory.

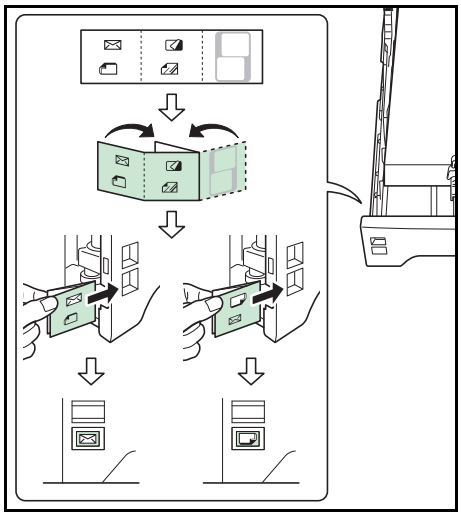
Coated Paper

Coated paper is created by treating the surface of the base paper with a coating that provides higher printing quality than plain paper. Coated paper is used for particularly high quality printing.

The surface of high-quality or medium-quality paper is coated with special agents that improve ink adhesion by making the paper surface smoother. These agents are used either to coat both sides of the paper or just one side. The coated side appears slightly glossy.

IMPORTANT When printing on coated paper in very humid environments, ensure that the paper is kept dry as moisture may cause sheets to stick together when they are fed into the printer.

Paper Type Indicators (Optional paper feeder PF-530)



If you are going to load non-standard paper in the optional paper feeder PF-530, fold the provided paper type indicator sheet into thirds so that the appropriate paper type symbol faces out and is at the top, and insert it into the cassette's display folder.

- Envelopes
- Thick paper
- Labels
- Coated paper

The blank sheet can be used to write in any name or symbol. When writing in a name or symbol on the bottom part of the sheet, invert it with respect to the top part.

Paper Type

The printer is capable of printing under the optimum setting for the type of paper being used.

Setting the paper type for the paper source from the printer's operation panel will cause the printer to automatically select the paper source and print in the mode best suited to that type of paper.

A different paper type setting can be made for each paper source including the MP tray. Not only can preset paper types be selected, but it is also possible for you to define and select customized paper types. Refer to *Type Adjust (Creating custom paper type) on page 4-34*. The following types of paper can be used.

Paper Type	Paper Source				
	MP Tray	Paper Cassette / Optional Paper Feeder PF-520	Paper Weight	Duplex Path	Optional Paper Feeder PF-530
PLAIN	Yes	Yes	Normal 2	Yes	Yes
TRANSPARENCY	Yes	No	Extra Heavy	No	No
PREPRINTED	Yes	Yes	Normal 2	Yes	Yes
LABELS	Yes	No	Heavy 1	No	Yes
BOND	Yes	Yes	Normal 3	Yes	Yes
RECYCLED	Yes	Yes	Normal 2	Yes	Yes
VELLUM	Yes	No	Light	No	No
ROUGH	Yes	Yes	Normal 3	Yes	Yes
LETTERHEAD	Yes	Yes	Normal 2	Yes	Yes
COLOR	Yes	Yes	Normal 2	Yes	Yes
PREPUNCHED	Yes	Yes	Normal 2	Yes	Yes
ENVELOPE	Yes	No	Heavy 2	No	Yes
CARDSTOCK	Yes	No	Heavy 1	No	Yes
COATED	Yes	No	Heavy 1	Yes	Yes
THICK	Yes	No	Heavy 2	Yes	Yes
HIGH QUALITY	Yes	Yes	Normal 3	Yes	Yes
CUSTOM 1 (to 8)†	Yes	Yes	Normal 2	Yes	Yes

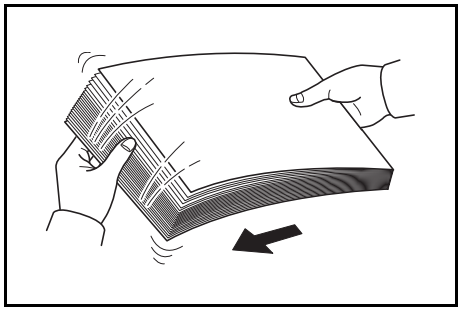
Yes: Can be stored No: Cannot be stored

†. This is a paper type defined and registered by the user. Up to eight types of user settings may be defined. For details, refer to*Type Adjust (Creating custom paper type) on page 4-34*.

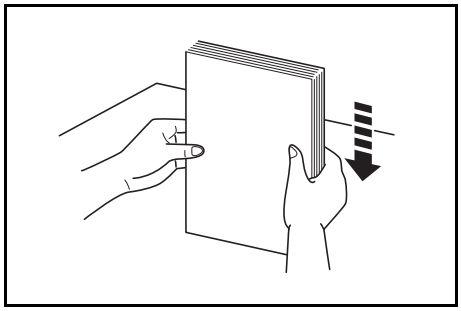
Loading Paper

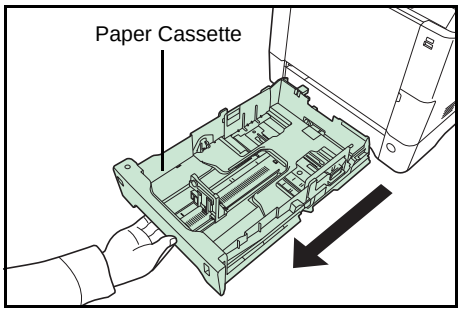
The following explains the procedure for loading paper in the cassette and the MP tray.

Loading Paper into the Cassette

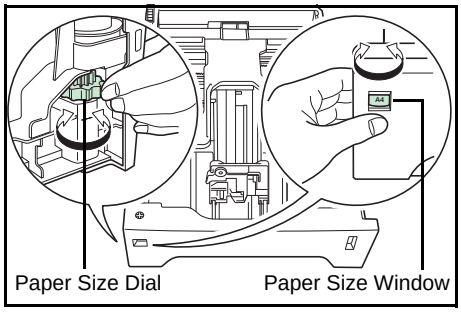


1 Fan the media (paper), then tap it on a level surface to avoid media jams or skewed printing.



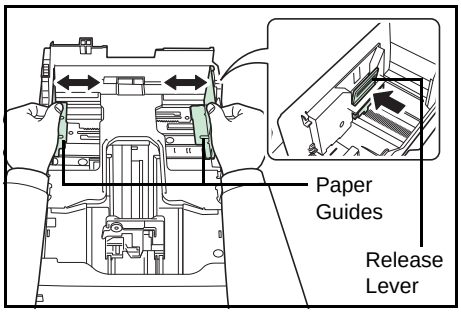


2 Pull the paper cassette all the way out of the printer.

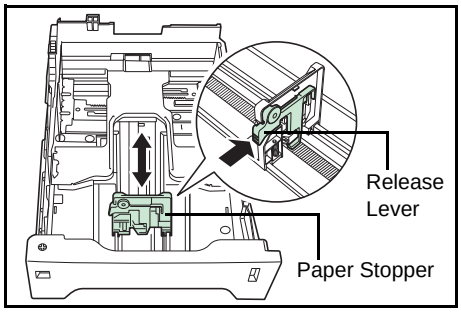


3 Turn the paper size dial so that the size of the paper you are going to use appears in the paper size window.

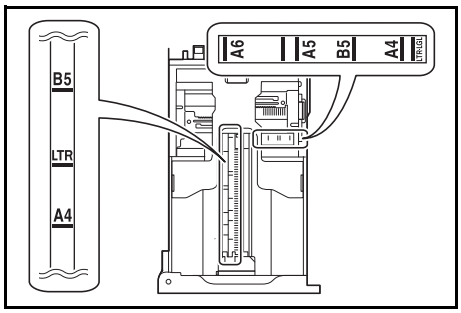
Note When the paper size dial is set to **Other** the paper size must be set into the printer on the operation panel. Refer to *Cassette (1 to 4) Size (Setting the cassette paper size) on page 4-31*.



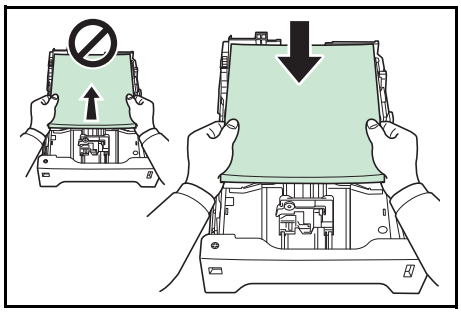
4 While pressing the release lever, slide the left and right paper guides to the desired paper size.



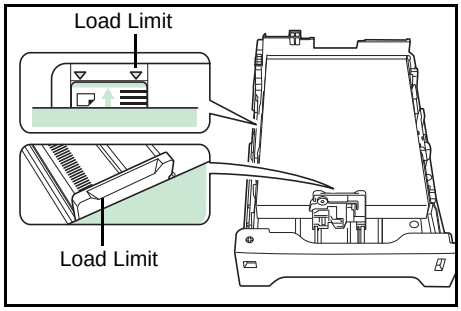
5 While pressing the release lever, slide the paper stopper to the desired paper size.



Standard paper sizes are marked on the inside of the paper cassette.

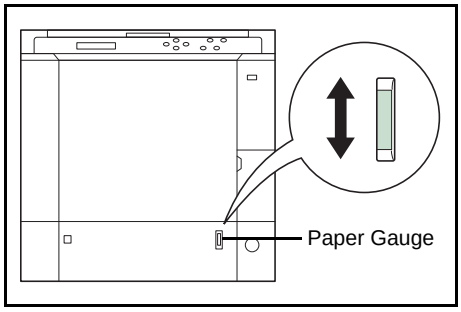


6 Slide the paper into the paper cassette.



Note Do not load more paper than will fit under the load limits on the paper guides.

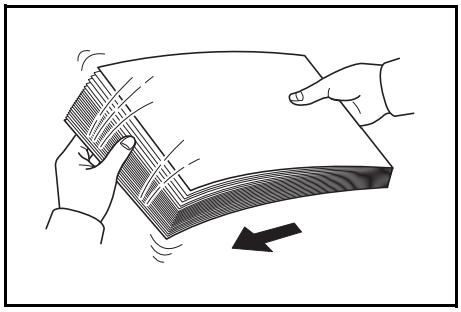
The paper cassette will hold approximately 500 sheets of 80 g/m² (21 lb.) paper with a thickness of 0.11 mm. (The d-Color P2021 will hold approximately 250 sheets of paper with a thickness of 0.11 mm/sheet.)



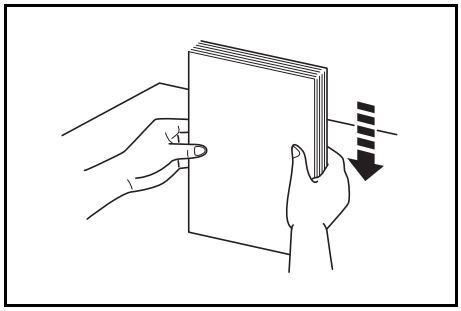
7 Insert the paper cassette into the slot in the printer. Push it straight in as far as it will go.

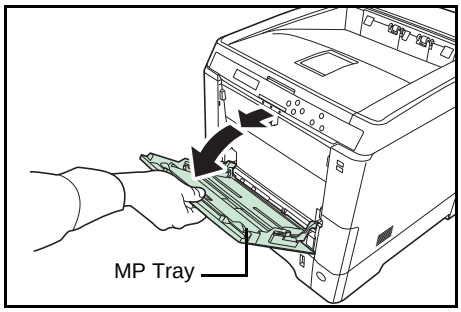
There is a paper gauge on the right side of the front of the paper cassette to indicate the remaining paper supply. When paper is exhausted, the pointer will go down to the level of (empty).

Loading Paper into the MP (Multi-Purpose) Tray

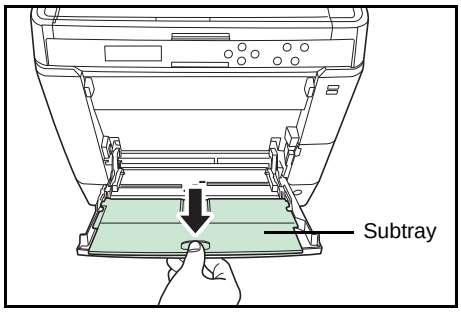


1 Fan the media (paper/transparencies), then tap it on a level surface to avoid media jams or skewed printing.

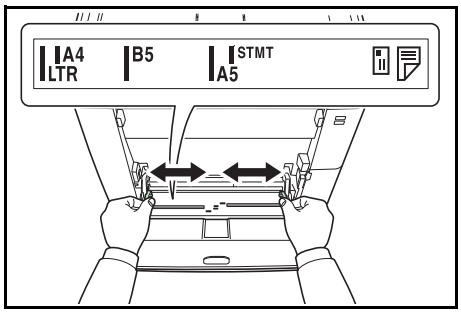




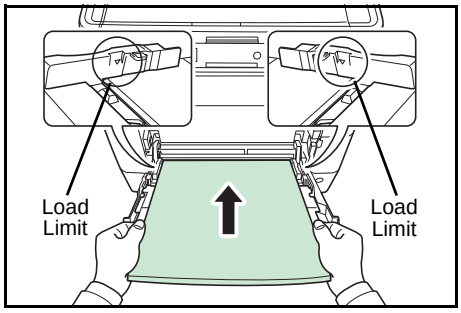
2 Press the center of the MP tray, and pull it towards you until it stops.



3 Pull the subtray toward you until it stops, making sure there are no gaps.



4 Adjust the position of the paper guides on the MP tray. Standard paper sizes are marked on the MP tray. For standard paper sizes, slide the guides to the position marked correspondingly.

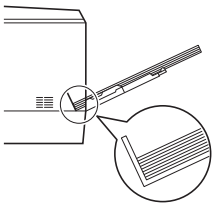
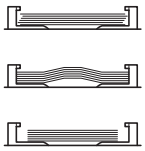
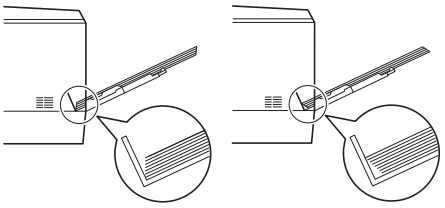


5 Align the paper with the paper guides and insert as far as it will go.

Note Do not load more paper than will fit under the load limits on the inside of the MP tray.

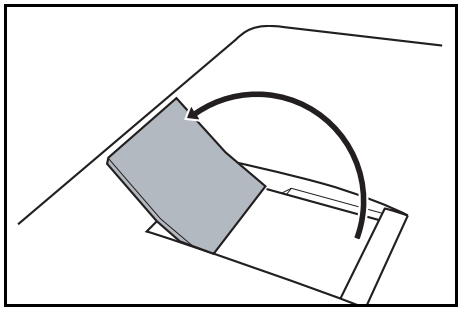
When printing on transparencies, feed the sheets into the printer one at a time.

If the paper is considerably curled in one direction, for example, if the paper is already printed on one side, try to roll the paper in the opposite direction to counteract the curl. Printed sheets will then come out flat.

Correct		
Incorrect		

6 Set the MP tray paper size on the printer's operation panel. Refer to *MP Tray Size (Setting MP tray paper size) on page 4-29*.

Paper stopper



To use the sheet ejection stopper, open as shown below. (Example: Legal)

4 Using the Operation Panel

This chapter contains explanations on the following topics:

General Information 4-2
Understanding the Operation Panel 4-3
Keys 4-6
Using the Menu Selection System 4-8
Setting a Mode Selection Menu 4-10
Report Print 4-11
USB Memory (USB memory selection) 4-16
Custom Box (Using a Custom Box) 4-18
Job Box 4-22
Counter (Viewing the counter value) 4-28
Paper Settings 4-29
Print Settings 4-37
Network (Network settings) 4-46
Device Common (Selecting/Setting the common device) 4-52
Security 4-62
Job Accounting (Job Accounting selection/setting) 4-70
Administrator (Administrator settings) 4-76
Adjust/Maintenance (Adjust/Maintenance selection/setting) 4-79
Optional Functions 4-89

General Information

This chapter provides the information you need to configure the Ecosys Color printer. In general you need to use the operation panel only to make default settings. You can make most changes to the printer settings using the printing system driver through the application software.

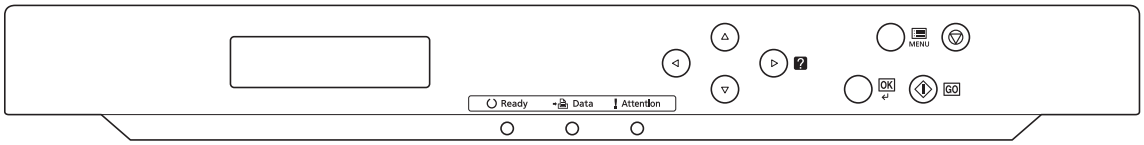
Note Changes to printer settings made using a software application override changes made using the operation panel.

You can also access the printer's various settings from a remote location, by using the control panel, the printing system driver or other utilities such as the Status Monitor Utility. Other printer utilities can be installed using the CD-ROM supplied with the printer.

The chapter describes the operation panel in detail, including its menus and the procedures for changing various printer settings.

Understanding the Operation Panel

The operation panel on the top of the printer has a 2-line by 21-character liquid crystal display (LCD), eight keys, and three indicators (LED).



Messages that appear on the display and functions of indicators and keys are explained in this chapter.

Message Display

The message display on the operation panel shows:

- Status information, the ten messages listed below which are displayed during normal operation.
- For information on error code and errors where the printer requires the operator's attention, refer to *Troubleshooting on page 6-1*.

Status Information

Message	Meaning
Self test	The printer is performing self-diagnostics after power-up.
Please wait	The printer is warming up and is not ready. When the printer is switched on for the first time, this message will take several minutes.
Please wait (Paper loading)	This message appears when the printer is preparing to print coated paper (COATED) fed from the optional paper feeder PF-530.
Please wait (Adding toner)	Toner is currently being replenished. This message may be displayed during continuous printing of a large volume of pages which require a large amount of toner such as with photographs, etc.
Please wait (Calibrating)	The color calibration function is being performed automatically as you powered on the printer. You can also execute this function manually on the operation panel. For details, refer to *Color Calibration on page 4-79*.
Please wait (Cleaning)	Displayed during main charger cleaning.
Please wait (Cooling)	The printer is being cooled down and is not ready.
Ready	The printer is ready to print.
Processing	The printer is receiving data to print. This is also shown when the printer is reading a USB memory, hard disk or RAM disk.
Sleeping	The printer is in Auto Sleep. The printer wakes from Auto Sleep whenever a print job is received. The printer then warms up and goes on-line. For details on Auto Sleep, refer to *Sleep Timer (Sleep timer timeout time) on page 4-59*.
Canceling data	Jobs inside the printer are being canceled. To cancel a job, refer to *Canceling a Printing Job on page 4-6*.

Error Codes

Refer to the *Troubleshooting on page 6-1*.

Indicators in Message Display

Ready, Data, and Attention Indicators

The following indicators light during normal operation and whenever the printer needs attention. Depending on the status of lighting, each indicator has the following meaning:

Indicator	Description
Ready	**Flashing.** Indicates an error that you can resolve. For details, refer to the *Troubleshooting on page 6-1*. **On.** Indicates that the printer is ready and on-line. The printer prints the data it receives. **Off.** Indicates that the printer is off-line because printing is manually stopped or automatically stopped due to an error condition. Data can be received but will not be printed. For details, refer to *Error Messages on page 6-6* if printing is automatically stopped when an error condition has occurred.
Data	**Flashing.** Indicates that a data is being received. **On.** Indicates either that data received is being processed before printing starts, or that the hard disk, USB memory, or RAM disk is being accessed.
Attention	**Flashing.** If `Please wait` is displayed, the printer is warming up. Or, the printer cannot print for some reason (e.g. there is no paper in the cassette). Check the message display and carry out the required action. For details, refer to *Error Messages on page 6-6*. **On.** The printer cannot print due to an error. Check the message display and carry out the required action. For details, refer to *Error Messages on page 6-6*.

Keys

The operation panel keys are used to configure the printer operation. Note that certain keys have a secondary function.

GO Key

Use this key to:

- Recover from certain errors.
- Recover from Auto Sleep.

Cancel Key

This key is used to:

- Cancel a printing job.
- Stop the alarm sound.
- Reset numeric values or cancel a setting procedure while using menu system.

Canceling a Printing Job

1. While the printer displays `Processing`, press **[Cancel]**.

   `Print Cancel?` appears on the message display followed by the job name currently in progress.

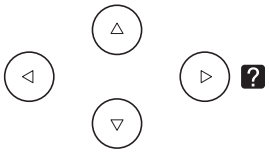
2. Press △ or ▽ to display the desired job and **[OK]**.

   `Canceling data` appears on the message display and printing stops after the current page is printed.

MENU Key

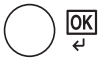
- **[MENU]** lets you enter the menu system to change the setup and printing environment of the printer.

Arrow Keys



- The four arrow keys are used in the menu system to access an item or enter numeric values. Use △ and ▽ to change menus, and ◁ and ▷ to move to the sub menu.
- The arrow key with the question mark (?) may be pressed when the paper jam message has appeared on the message display. A help message will then appear to facilitate jam clearing in the location.
- When `Use alternative?` is shown in the message display, use △ and ▽ key to select an alternative paper source.

OK Key



This key is used to:

- Finalize settings of numeric values and other selections.
- Set the paper source when `Use alternative?` is shown in the message display.

Using the Menu Selection System

Menu Selection System

This section explains how to use the menu selection system.

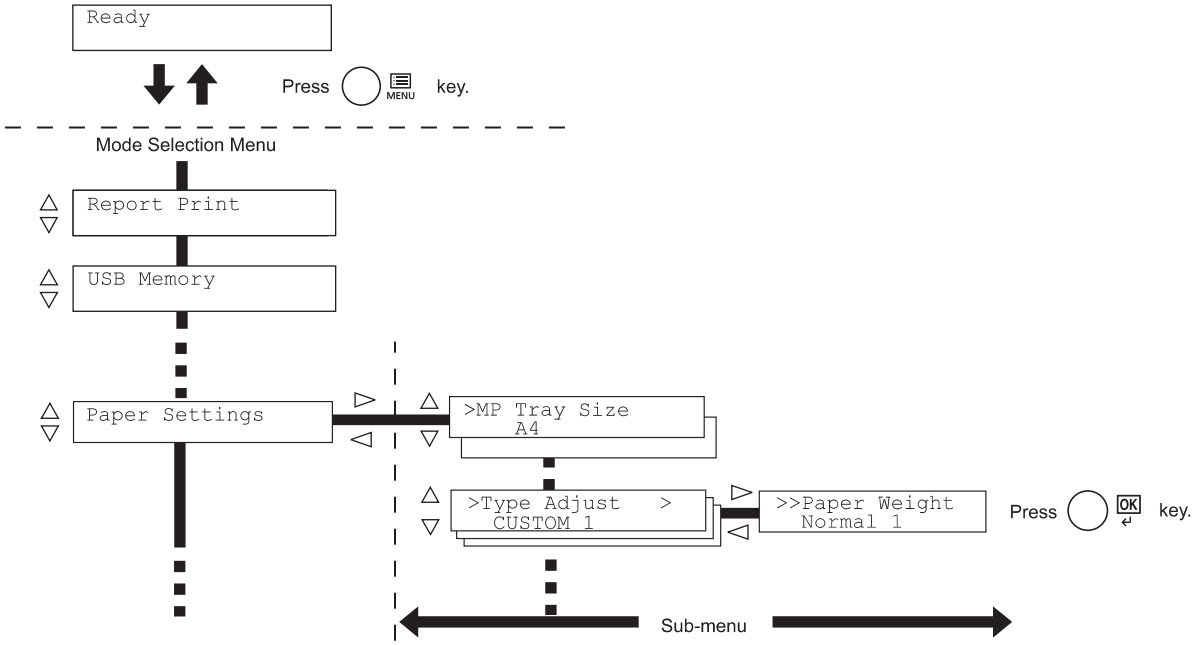
[MENU] on the operation panel allows you to use the menu to configure the printer settings to your specific needs. Settings can be made when `Ready`, `Processing`, or a similar message is indicated on the printer message display.

Note Settings that are received from application software and the printing system driver will take priority over settings made in the operation panel.

Entering the Mode Selection Menu

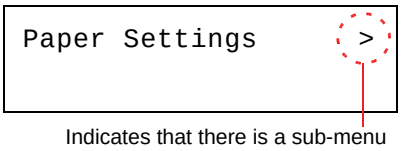
Press **[MENU]** when `Ready` is indicated on the printer message display.

The mode selection menu is displayed.



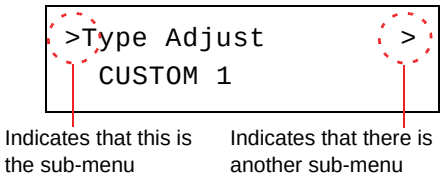
Selecting a Menu

The mode selection menu is hierarchical. Press △ or ▽ to display the desired menu.



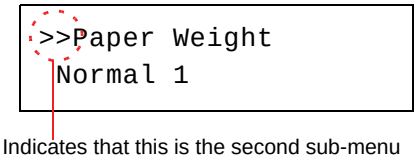
If the selected menu has a sub-menu, > is displayed after the menu.

Press ▷ to move to the sub-menu or ◁ to go back.



> is displayed before the sub-menu.

Press ▷ to move to another sub-menu or ◁ to go back.



>> is displayed before the second sub-menu.

Setting a Menu

Select the desired menu and press **[OK]** to set or change the configuration.

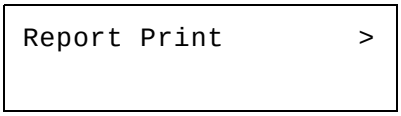
Press △ or ▽ to display the desired item and **[OK]** to finalize the value or selections set.

Cancelling Menu Selection

If you press **[MENU]** when a menu is selected, the message display returns to Ready.

Setting a Mode Selection Menu

This section explains the setting procedures used for each menu item in the mode selection menu.



1 While the printer displays `Ready`, `Please wait`, `Sleeping` and `Processing`, press **[MENU]**. The mode selection menu is displayed. (For example : `Report Print`)

2 Each time you press △ or ▽, the selection changes.

- Report Print
- USB Memory
- Custom Box
- Job Box
- Counter
- Paper Settings
- Print Settings
- Network
- Device Common
- Security
- Job Accounting
- Admin
- Adjust/Maintenance

IMPORTANT The `Custom Box` option appears in the mode selection menu when the hard disk is installed. The `Job Box` option appears when the hard disk is installed or the RAM disk has been set up. For more information, please refer to *Custom Box (Using a Custom Box) on page 4-18*, *Job Box on page 4-22* or *RAM Disk Mode (Using the RAM disk) on page 4-55*.

Note If you use the mode first selected when the printer is turned on, `Report Print` is displayed. For the second and subsequent times, the last menu option you selected the previous time is displayed.

Report Print

The printer prints the report. Report Print includes the following items:

- Print Menu Map
- Print Status Page
- Print Fonts List
- Print Hard Disk File List
- Print RAM Disk File List

1 Press **[MENU]**.

2 Press △ or ▽ repeatedly until `Report Print >` appears.

```
Report Print          >
```

Note that menus shown in the list may vary depending on which optional units installed in the printer.

Print Menu Map

The printer prints a full list of the menu selection system menu map.

1 Press ▷ while `Report Print >` is displayed.

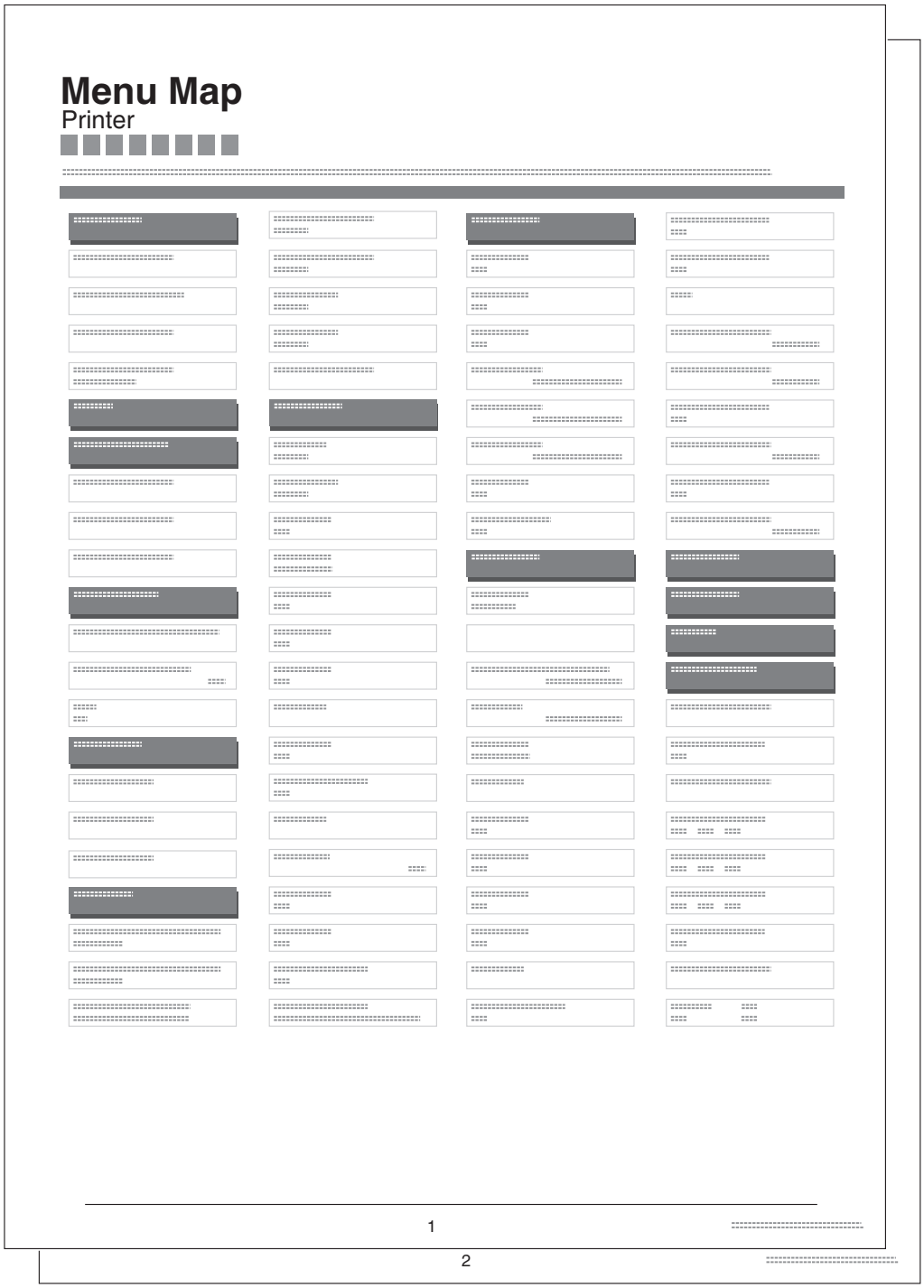
2 `>Print Menu Map` appears. In other displays, press △ or ▽ repeatedly until the map appears.

3 Press **[OK]**. A question mark (?) appears.

```
>Print Menu Map ?
```

4 Press **[OK]**. The message `Processing` appears and the printer prints a Menu Map.

Menu Map Sample



Print Status Page

You can check the printer's current status, including available memory space and option settings by printing a status page.

1 Press ▷ while `Report Print >` is displayed.

2 Press △ or ▽ repeatedly until `>Print Status Page` appears.

3 Press **[OK]**. A question mark (?) appears.

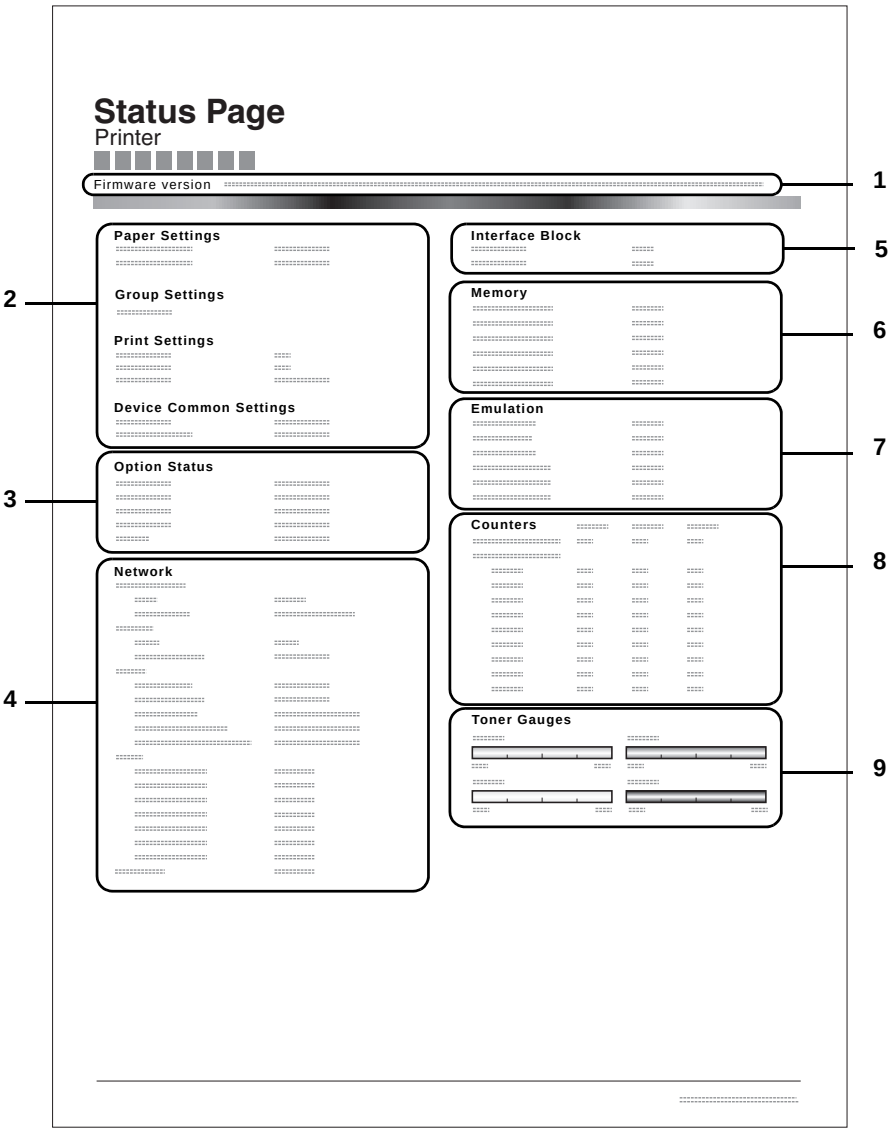
```
>Print Status Page ?
```

4 Press **[OK]** again. The message `Processing` appears and the printer prints a status page.

For a sample status page and its full description, refer to the next section *Understanding the Status Page.*

Understanding the Status Page

The numbers in the following diagram refer the items explained below the diagram. The items and values on the status page may vary depending on the printer's firmware version.



1 Firmware Version

This item shows the version and release date of the printer firmware.

2 Printer Settings Information

This item shows various printer settings for hardware-related items:

- MP tray paper size and type
- Paper cassette size and type
- Sleep time
- Formfeed timeout time

3 Installed Options

This item shows the options installed in the printer:

- Paper Feeder
- Hard disk

4 Network Status

This item shows the IP address, subnet mask address, and default gateway address for the network interface card in the printer.

5 Interface Information

This information shows the block status for items including the USB memory slot and USB interface.

6 Memory

This item shows:

- Standard memory in the printer
- Option memory slot status in megabytes
- Total memory in the printer
- Current status of the RAM disk

7 Emulation

This item shows all available emulations of the printer. The default setting for North America is KPDL (AUTO) emulation. The default setting for all other regions is PCL 6 emulation. The emulations are:

- PCL 6
- KPDL (AUTO)
- KPDL

8 Page Information

This shows counter information. Total printed page count and total page count of each paper size are shown, and are itemized by color/Black & White/total for each counter.

9 Consumable Status

This item shows the approximate level of remaining toner. When the value is 100, the toner container is full. The closer to 0, the smaller the amount of remaining toner.

Print Fonts List

To help you decide in selecting a font, you can printout lists of the internal fonts or the optional fonts.

1 Press ▷ while `Report Print >` is displayed.

2 Press △ or ▽ repeatedly until `>Print Fonts List` appears.

3 Press **[OK]**. A question mark (?) appears.

```
>Print Fonts List ?
```

4 Press **[OK]** again. The message `Processing` appears and the printer prints a list of fonts with a sample and font ID (number) for each of them.

Print Hard Disk File List

This allows you to print a list of the files on the hard disk.

This menu is displayed only when the optional hard disk is installed on the printer.

IMPORTANT This is only displayed when the printer has a hard disk installed and the disk is correctly formatted.

Note An optional hard disk can only be installed on the d-Color P2026.

1 Press ▷ while `Report Print >` is displayed.

2 Press △ or ▽ repeatedly until `>Print Hard Disk File List` appears.

3 Press **[OK]**. A question mark (?) appears.

```
>Print Hard Disk
 File List ?
```

4 Press **[OK]** again. The message `Processing` appears and the printer prints a list of files stored in a hard disk.

Print RAM Disk File List

This allows you to print a list of the files on the RAM disk.

IMPORTANT This is displayed when RAM disk mode is enabled.

1 Press ▷ while `Report Print >` is displayed.

2 Press △ or ▽ repeatedly until `>Print RAM Disk File List` appears.

3 Press **[OK]**. A question mark (?) appears.

```
>Print RAM Disk
 File List ?
```

4 Press **[OK]** again. The message `Processing` appears and the printer prints a list of files stored in a RAM disk.

USB Memory (USB memory selection)

This specifies the settings for removing the USB memory and printing USB memory content. The USB Memory menu automatically appears when you install the USB memory.

IMPORTANT This message is displayed only when the USB host block is set to Unblock. For more information, please refer to *I/F Block (Interface (external device) block setting) on page 4-63*

The options available in USB Memory are as follows:

- Print File (Printing a file)
  Copies (Number of copies)
  Paper Source (Selecting the paper feed source)
- Remove Device (Removing the USB memory)
- Print File List (Printing a list of the files on a USB memory)

1 Press **[MENU]**.

2 Press △ or ▽ repeatedly until USB Memory > appears.

```
USB Memory          >
```

Note that menus shown in the list may vary depending on which optional units installed in the printer.

Print File (Printing a file)

You can use this to specify printing for files in the USB memory.

1 Press ▷ while USB Memory > is displayed.

2 >Print File appears. In other displays, press △ or ▽ repeatedly until the map appears.

3 Press **[OK]**. A question mark (?) appears.

4 Press **[OK]** again. The folder or file appears.
(For example : Folder 1)
Each time you press △ or ▽, the next folder or file appears in succession.

```
/
  /00:Folder 1
```

To view lower-level folders or files, press ▷.
(For example : Folder 2)

```
/00:Folder 1
  /01:Folder 2
```

To view folders or files on still lower levels, press ▷.
(For example : File 3)

```
/.../01:Folder 2
    02:File 3
```

IMPORTANT Note also that up to 3 levels of folders or files are displayed. It might take some time before the folder or file name appears, depending on the size of the USB memory or the number of files.

You can move between the folder levels by pressing △ and ▽ or ◁ and ▷.

5 Press **[OK]**. A question mark (?) appears.
(For example : File 3)

```
/.../01:Folder 2
?   02:File 3
```

6 Press **[OK]** again. Copies appears.

```
Copies
              001
```

Copies (Number of copies)

Sets the number of copies printed of the specified file in USB memory.

IMPORTANT To use this feature, an optional hard disk must be installed in the printer or the RAM disk must be set to On.

Note An optional hard disk can only be installed on the d-Color P2026.

```
Copies
             010
```

1 While Copies in step 5 above is displayed, press △ and ▽ or ◁ and ▷ to display the number of copies. (E.g.: 10)

```
Paper Source
? Cassette 1
```

2 Press **[OK]**. Paper Source and a question mark (?) appears.

Paper Source (Selecting the paper feed source)

Sets the paper used for printing the specified file in USB memory.

```
Paper Source
? Cassette 2
```

1 While Paper Source in step 2 above is displayed, press △ and ▽ or ◁ and ▷ repeatedly until the paper source appears. (For example : Cassette 2)

Note that menus shown in the list may vary depending on which optional units installed in the printer.

2 Press **[OK]**. The message Processing appears and the printer prints a file stored in a USB memory.

Remove Device (Removing the USB memory)

Specifies the setting for USB memory removal.

1 Press ▷ while USB Memory > is displayed.

2 Press △ or ▽ repeatedly until >Remove Device appears.

```
>Remove Device ?
```

3 Press **[OK]**. A question mark (?) appears.

4 Press **[OK]** again. Menu display ends and the USB memory device can be removed.

Print File List (Printing a list of the files on a USB memory)

This allows you to print a list of the files on a USB memory device.

1 Press ▷ while USB Memory > is displayed.

2 Press △ or ▽ repeatedly until >Print File List appears.

```
>Print File List ?
```

3 Press **[OK]**. A question mark (?) appears.

4 Press **[OK]** again. The message Processing appears and the printer prints a list of files stored in a USB memory.

Custom Box (Using a Custom Box)

IMPORTANT To use a Custom Box, an optional hard disk must be installed in the printer. The hard disk must be formatted from the printer. For more information, refer to *Hard Disk (Using the optional hard disk) on page 4-56*.

Note An optional hard disk can only be installed on the d-Color P2026.

A Custom Box is general-purpose box that allows users to store print data on the printer's hard disk so that it can be reused as required.

Use the Embedded Web Server to create and delete a Custom Box, but use the printing system driver to send data stored in the box. For more information, refer to the *Embedded Web Server Operation Guide* and *Printing System Driver User Guide*.

Use the printer's operation panel to print the print data stored in a Custom Box.

The options available in Custom Box are as follows:

- Select Box (Box number : Box name) (Selecting the Custom Box)
- Print Box List (Prints a Custom Box list)

1 Press **[MENU]**.

2 Press △ or ▽ repeatedly until `Custom Box >` appears.

```
Custom Box          >
```

Select Box (Box number : Box name) (Selecting the Custom Box)

Use this procedure to select the Custom Box containing your document.

IMPORTANT The `Select Box` menu item only appears when there is a Custom Box.

1 Press ▷ while `Custom Box >` is displayed.

2 Press △ or ▽ repeatedly until `>Select Box >` appears. The box number and box name are displayed. (For example `: 0001:Box 1`)

3 Press **[OK]**. A blinking question mark (?) appears before the box number.

```
>Select Box
?0001:Box 1
```

4 Press △ or ▽ repeatedly until the desired box number and box name is displayed. Box numbers from 0001 to 1000 are displayed. Press ◁ or ▷ to scroll and view long box names.

```
>Select Box
?0001:Box 1
```

5 Press **[OK]** to display the desired Custom Box.

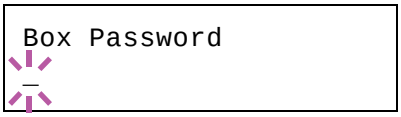
```
>Select Box          >
 0001:Box 1
```

Next, refer to *Manipulating Data in the Custom Box on page 4-19*.

IMPORTANT If you have set a password for the Custom Box, carry out the *Box Password (Box password input)* step next.

Box Password (Box password input)

User access to a Custom Box can be restricted by specifying a password for the box. The password is specified from the Embedded Web Server.



1 If you have set a password for the Custom Box, press ▷ while >Select Box > is displayed. Box Password is displayed and the blinking cursor (_) appears.

2 Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified password. Press ◁ or ▷ to move the cursor left or right.

3 Press **[OK]** to set the password and proceed to the next step *Manipulating Data in the Custom Box*.

IMPORTANT After you enter your password, the printer checks the password. If you entered the password incorrectly, Wrong Password is displayed and the input screen reappears. Re-enter the password correctly.

Manipulating Data in the Custom Box

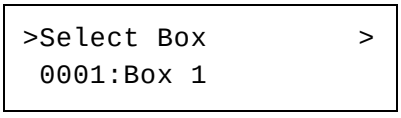
The items you can manipulate in the Custom Box are as follows:

- Print All Files (Prints all the data)
- Box number : Box name / Document number : Document name (Selects the data)
- Delete All Files (Deletes all the data)
- Print File List (Prints a document list)

IMPORTANT The menus Box number: Box name/Document number: Document name, Print All Files, and Delete All Files are displayed when more than one document.

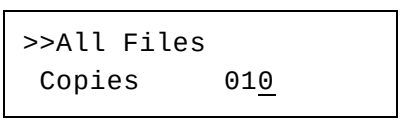
Print All Files (Prints all the data)

Use this procedure to print all the documents in the Custom Box.



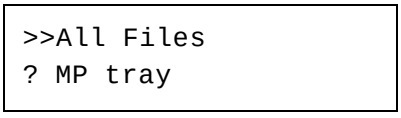
1 Press ▷ while >Select Box > and the box number and box name are displayed.

Press △ or ▽ until >>Print All Files, and press **[OK]**. A question mark (?) is displayed.



2 Press **[OK]** again. The screen for setting the number of copies appears. Press △, ▽, ◁ or ▷ to enter the number of copies. (E.g.: 10)

You can select a number between 001 and 999 as the number of copies.



3 Press **[OK]**. The screen for selecting the paper source appears. Press △ or ▽ repeatedly until the desired paper source is displayed. Depending on the installed optional units, one or more of the following are displayed:

MP tray
Cassette (only the printer's standard cassette used)
Cassette 1 to 4 (optional paper feeder installed)
Auto

Note Cassette 4 is only available on the d-Color P2026.

```
>>Delete after Printed
? Off
```

4 Press **[OK]**. The screen for choosing whether to delete the data after printing appears with a blinking question mark (?).

5 Select Off or On using △ or ▽.

6 Press **[OK]**. Processing is displayed and the specified number of copies of all the documents are printed. If you selected On in the Delete after Printed screen, all the documents are deleted after printing ends.

Box number : Box name / Document number : Document name (Selects the data)

Use this procedure to select a document and then print or delete the selected document.

```
>Select Box          >
 0001:Box 1
```

1 Press **[OK]** while >Select Box > and the box number and box name are displayed.

```
>>0001:Box 1
?0001:Data 1
```

The document number and document name are displayed beneath the box number and box name with a blinking question mark (?) in front of the document number. Select the document name. (For example : 0001:Data 1)

2 Press △ or ▽ repeatedly until the desired document number and document name is displayed.

```
>>0001:Data 1
 Copies     010
```

3 Press **[OK]**. The screen for setting the number of copies appears. Press △, ▽, ◁ or ▷ to enter the number of copies (e.g.: 10).

You can select a number between 001 and 999 as the number of copies.

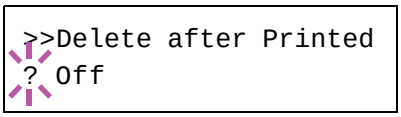
Note If you select Delete in step 3, the selected document can be deleted. Press **[OK]**. Processing is displayed, and the selected document in the Custom Box is deleted.

```
>>0001:Data 1
? MP tray
```

4 Press **[OK]**. The screen for selecting the paper source appears. Press △ or ▽ repeatedly until the desired paper source is displayed. Depending on the installed optional units, one or more of the following are displayed:

MP tray
Cassette (only the printer's standard cassette used)
Cassette 1 to 4 (optional paper feeder installed)
Auto

Note Cassette 4 is only available on the d-Color P2026.



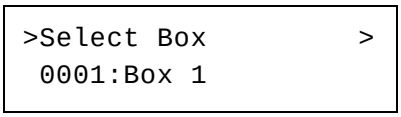
5 Press **[OK]**. The screen for choosing whether to delete the data after printing appears with a blinking question mark (?).

6 Select `Off` or `On` using △ or ▽.

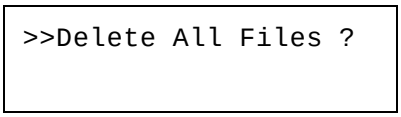
7 Press **[OK]**. `Processing` is displayed and the specified number of copies of the selected document are printed. If you selected `On` in the `Delete after Printed` screen, the selected document is deleted after printing ends.

Delete All Files (Deletes all the data)

Use this procedure to delete all the documents in the Custom Box.



1 Press ▷ while `>Select Box >` and the box number and box name are displayed.

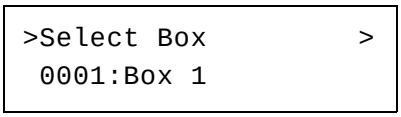


Press △ or ▽ until `>>Delete All Files`, and press **[OK]**. A question mark (?) is displayed.

2 Press **[OK]** again. `Processing` is displayed, and all the documents in the Custom Box are deleted.

Print File List (Prints a document list)

Use this procedure to print a list of the documents in the selected Custom Box.



1 Press ▷ while `>Select Box >` and the box number and box name are displayed.

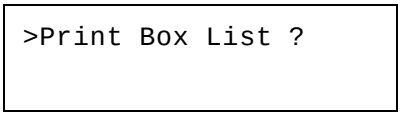
Press △ or ▽ until `>>Print File List`, and press **[OK]**. A question mark (?) is displayed, press **[OK]**.

2 Press **[OK]** again. `Processing` is displayed and a list of the documents in the selected Custom Box is printed.

Print Box List (Prints a Custom Box list)

Use this procedure to print a Custom Box list.

1 Press ▷ while `Custom Box >` is displayed.



2 Press △ or ▽ repeatedly until `>Print Box List` appears.

Press **[OK]**. A question mark (?) appears.

3 Press **[OK]** again. `Processing` is displayed and a Custom Box list is printed.

Job Box

IMPORTANT To use the Job Box, an optional hard disk must be installed in the printer. The hard disk must be formatted from the printer. For more information, refer to *Hard Disk (Using the optional hard disk) on page 4-56*. The RAM disk may also be used in the Proof-and-Hold and Private Print modes.

Note An optional hard disk can only be installed on the d-Color P2026.

Job Box is a print function that makes the Job Retention function possible. The settings are specified from the printing system driver. Refer to *Printing System Driver User Guide* for the driver settings.

Job Retention

Job Retention has four modes as summarized below. These modes are selected from the printing system driver through the application software:

	Quick Copy	Proof-and-Hold	Private Print	Stored Job
Primary function	To later print additional copies	To proof the first copy before printing multiple copies	To hold the document in printer to prevent unauthorized access	To electronically store documents such as fax cover pages
Start storing by	Printing system driver	Printing system driver	Printing system driver	Printing system driver
On terminating print setting from application software	Prints simultaneously	Prints one copy simultaneously	Does not print	Does not print
Retrieved by	Operation panel	Operation panel	Operation panel	Operation panel
Default number of copies printed at retrieval	Same as storing (can be changed)	One less (can be changed)	Same as storing (can be changed)	One (can be changed)
Maximum number of jobs stored †	32, expandable to 50	32, expandable to 50	Depends on the hard disk capacity (the job is automatically deleted after printing)	Depends on the hard disk capacity
PIN security	No	No	Yes	Yes (if necessary)
Data after printing	Stored	Stored	Deleted	Stored
Data at power off	Deleted	Deleted	Deleted	Stored
Hard disk	Necessary	Unnecessary (RAM disk may also be used)	Unnecessary (RAM disk may also be used)	Necessary

†. Jobs in excess will cause the earlier ones to be deleted.

Note Refer to the *Printing System Driver User Guide* for the driver settings and print (save) procedures.

The options available in Job Box are as follows:

- Using Quick Copy/Proof-and-Hold
  Quick Copy (User Name) (Selecting the User)

(User Name) (Data Name) (Selecting the data)
(Data Name) Copies (number of copies) (Number of copies / deleted)

- Printing a Private Print/Stored Job
  Private/Stored (User Name) (Selecting the User)
  (User Name) (Data Name) (Selecting the data)
  (Data Name) ID (number of copies) (Input passwords)
  (Data Name) Copies (number of copies) (Number of copies / deleted)
- Job Box Configuration (Job Box Configuration)

1 Press **[MENU]**.

2 Press △ or ▽ repeatedly until `Job Box >` appears.

```
Job Box              >
```

Note that menus shown in the list may vary depending on which optional units installed in the printer.

Quick Copy (Using Quick Copy)

This mode enables you to print the requested number of copies of a job, simultaneously storing the job on the hard disk. When additional copies are required, you can reprint the required number of copies from the printer operation panel. To print a job as a quick copy job, refer to *Printing System Driver User Guide*.

The default number of print jobs that can be stored on the hard disk is 32. This value can be increased to up to 50 from the Job Box Configuration menu. For details, refer to *Changing the Maximum Number of Quick Copy on page 4-27*. When the number of jobs reaches the limit, the oldest job will be overwritten by the new one.

When the printer is turned off, all stored jobs will be deleted.

Note Refer to the *Printing System Driver User Guide* for the driver settings.

Printing Additional Copies using Quick Copy

1 Press ▷ while `Job Box >` is displayed.

2 Press △ or ▽ repeatedly until `>Quick Copy` appears. The name entered in the printing system driver (`Harold`, in this example) also appears.

3 Press **[OK]**. A blinking question mark (?) appears before the user name.

```
>Quick Copy
?Harold
```

4 Press △ or ▽ to display the desired user name, `Arlen`, in this example.

```
>Quick Copy
?Arlen
```

5 Press **[OK]**. The job name entered in the printing system driver (`Report`, in this example) appear with a blinking question mark (?) before the letters.

```
>Arlen
?Report
```

6 Press △ or ▽ to scroll to the desired job title.

Note If you selected `All Files`, this process is applied to all the documents in the Quick Copy/Proof-and-Hold.

```
>Report
 Copies              001
```

7 Press **[OK]**. The number of copies to be printed can be set. To increase the copy count, press △; to decrease the copy count, press ▽.

Note If you selected `All Files`, press △ after `Copies` --- is displayed to set the number of copies. When using the number of copies specified with print job, select `Copies` ---.

8 Press **[OK]** to finalize the copy count. The printer prints the specified number of copies for the job.

Deleting a Quick Copy Job

1 Follow steps 1 through 6 in the above section to let the title of the job to be deleted displayed.

```
>Report
 Copies              001
```

2 When the title of the job to be deleted is displayed, e.g. `Report`, press **[OK]**. The cursor (_) below the copy count starts to blink.

```
>Report
 Delete
```

3 Press ▽ repeatedly until `Delete` appears below the title.

Note If you selected `All Files`, this process is applied to all the documents in the Quick Copy/Proof-and-Hold.

4 Press **[OK]**. The message `Processing` appears and the stored quick copy job is deleted.

Using Proof-and-Hold

When you print multiple copies, this mode first prints one copy so that you can proof it before continuing to print the remaining copies. Since you can proof the printouts before printing the remaining copies, wastage of paper can be reduced.

The printer prints one copy and, at the same time, saves the print job on the hard disk/RAM disk. You can also change the number of copies when resuming printing from the operation panel.

When the printer is turned off, all stored jobs will be deleted.

Note Refer to *Printing System Driver User Guide* for the driver settings.

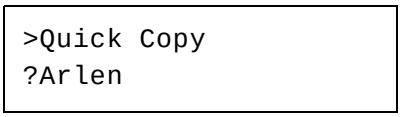
Printing Remaining Copies of a Proof-and-Hold Job

1 Press ▷ while `Job Box` > is displayed.

2 Press △ or ▽ repeatedly until >`Quick Copy` appears. The name entered in the printing system driver (`Harold`, in this example) also appears.

```
>Quick Copy
?Harold
```

3 Press **[OK]**. A blinking question mark (?) appears before the user name.



4 Press △ or ▽ to display the desired user name, `Arlen`, in this example.

5 Press **[OK]**. The job name entered in the printing system driver (`Report`, in this example) appear with a blinking question mark (?) before the letters.

6 Press △ or ▽ to scroll to the desired job title.

Note If you selected `All Files`, this process is applied to all the documents in the Quick Copy/Proof-and-Hold.

7 Press **[OK]**. The number of copies to be printed can be set. To increase the copy count, press △ to decrease the copy count, press ▽.

Note If you selected `All Files`, press △ after `Copies` ---- is displayed to set the number of copies. When using the number of copies specified with print job, select `Copies` ----.

8 Press **[OK]** to finalize the copy count. The printer prints the specified number of copies for the job.

Deleting a Proof-and-Hold Job

1 Follow steps 1 through 6 in the above section to let the title of the job to be deleted displayed.

2 When the title of the job to be deleted is displayed, e.g. `Report`, press **[OK]**. The cursor (_) below the copy count starts to blink.

3 Press ▽ repeatedly until `Delete` appears below the title.

4 Press **[OK]**. The message `Processing` appears and the stored job is deleted.

Private/Stored (Printing a private print/stored job)

In private printing, you can specify that a job is not printed until you release the job from the operation panel. When sending the job from the application software, specify a 4-digit access code in the printing system driver. The job is released for printing by entering the access code on the operation panel ensuring confidentiality of the print job.

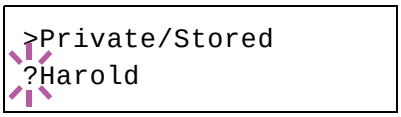
In the stored job mode, access codes are not mandatory, but can be set on the printing system driver if printing with PIN security is required. Then, the access code must be entered on the operation panel to print a stored job. Print data will be stored in the hard disk after printing.

Refer to *Printing System Driver User Guide* for the driver settings.

Releasing a Private/Stored Job

1 Press ▷ while `Job Box` > is displayed.

2 Press △ or ▽ repeatedly until `>Private/Stored` appears. The name entered in the printing system driver (`Harold`, in this example) also appears.



3 Press **[OK]**. A blinking question mark (?) appears before the user name.

4 Press △ or ▽ to display the desired user name (Arlen, in this example).

5 Press **[OK]**. The user name and the job name (Agenda, in this example) entered in the printing system driver appear with a blinking question mark (?).

6 Press △ or ▽ to display the desired job title.

Note If you selected All Files, this process is applied to all the documents in the Private/Stored Job.

7 Press **[OK]**. The ID input line appears. Enter the four-digit access code entered in the printing system driver and press **[OK]**.

To enter the ID, press ◁ or ▷ to move the cursor to the number to be changed and then enter the correct number by pressing △ or ▽.

Note If you selected All Files and the stored access code does not match any of the documents. or if no access codes was specified, ID error is displayed.

8 You can set the number of copies to be printed. To increase the copy count, press △; to decrease the copy count, press ▽.

Note If you selected All Files, press △ after Copies --- is displayed to set the number of copies.

9 Press **[OK]** to finalize the copy count. The printer prints the specified number of copies for the job.

Deleting a Private/Stored Job

You can individually delete stored jobs by performing the following procedure. Jobs saved using Private Print will be automatically deleted if you turn the power off after printing, but jobs saved using Stored Job will not be deleted automatically.

1 Follow steps 1 through 6 in the above section.

2 When the title of the job to be printed is displayed (Agenda, in this example), press **[OK]**. Enter the four-digit access code entered in the printing system driver and press **[OK]**.

3 Press ▽ repeatedly until Delete appears for the number of copies.

4 Press **[OK]**. The private job is deleted.

Job Box Configuration

Change Job Box settings, such as the maximum number of storable documents in the hard disk, and automatic delete settings.

The following items are available in the Job Box detail settings.

- Changing the Maximum Number of Quick Copy

- Set Automatic Delete times for Temporary Jobs

Changing the Maximum Number of Quick Copy

This changes maximum number of Quick Copy from 0 to 50. The default is 32.

1 Press ▷ while `Job Box >` is displayed.

2 Press △ or ▽ repeatedly until `>Job Box Configuration >` appears.

```
>Job Box            >
 Configuration
```

3 Press ▷.

4 Press △ or ▽ repeatedly until `>>Quick Copy` appears.

```
>>Quick Copy
                   32
```

5 Press **[OK]**. A blinking cursor (_) appears.

```
>>Quick Copy
                   32_
```

6 Press △ or ▽ to increase or decrease the value at the blinking cursor. The value can be set between `0` and `50`. Use ◁ and ▷ to move the cursor right and left.

7 When the desired maximum number of jobs is set, press **[OK]**.

8 Press **[MENU]**. The display returns to `Ready`.

Set Automatic Delete times for Temporary Jobs

1 Press ▷ while `Job Box >` is displayed.

2 Press △ or ▽ repeatedly until `>Job Box Configuration >` appears.

```
>Job Box            >
 Configuration
```

3 Press ▷.

4 Press △ or ▽ repeatedly until `>>Delete` appears.

5 Press **[OK]**. A blinking question mark (?) appears.

```
>>Delete
 ? Off
```

6 Press △ or ▽ repeatedly until the desired Automatic Delete time is displayed. The list shows the following times:

`Off` (automatic delete is not performed)

`1 hour` (deleted in 1 hour)

`4 hours` (deleted in 4 hours)

`1 day` (deleted on the next day)

`1 week` (deleted after one week)

7 Press **[OK]**.

8 Press **[MENU]**. The display returns to `Ready`.

Counter (Viewing the counter value)

Displays the number of pages printed.

The options available in Counter are as follows:

- Printed Pages (Displaying the total printed pages)
- Color (Displaying the color printed pages)
- Black & White (Displaying the Black & White printed pages)

1 Press **[MENU]**.

2 Press △ or ▽ repeatedly until `Counter >` appears.

```
Counter                >
```

Printed Pages (Displaying the total printed pages)

This only displays the total number of pages printed. You cannot change the displayed number.

1 Press ▷ while `Counter >` is displayed.

2 Press △ or ▽ repeatedly until `>Printed Pages` appears. The total number of pages printed is displayed. (E.g.: `2000`)

```
>Printed Pages
                       2000
```

3 Press **[MENU]**. The display returns to `Ready`.

Color (Displaying the color printed pages)

This only displays the number of color pages printed. You cannot change the displayed number.

1 Press ▷ while `Counter >` is displayed.

2 Press △ or ▽ repeatedly until `>Color` appears. The total number of pages printed is displayed. (E.g.: `1000`)

```
>Color
                       1000
```

3 Press **[MENU]**. The display returns to `Ready`.

Black & White (Displaying the Black & White printed pages)

This only displays the number of Black & White pages printed. You cannot change the displayed number.

1 Press ▷ while `Counter >` is displayed.

2 Press △ or ▽ repeatedly until `>Black & White` appears. The total number of pages printed is displayed. (E.g.: `1000`)

```
>Black & White
                       1000
```

3 Press **[MENU]**. The display returns to `Ready`.

Paper Settings

This sets the paper size and type for the MP tray and cassettes from which paper is supplied.

The options available in Paper Settings are as follows:

- MP Tray Size (Setting MP tray paper size)
- MP Tray Type (Setting the MP tray paper type)
- Cassette (1 to 4) Size (Setting the cassette paper size)
- Cassette (1 to 4) Type (Setting the cassette paper type)
- Type Adjust (Creating custom paper type)
- Reset Type Adjust (Resetting the custom paper type)

1 Press **[MENU]**.

2 Press △ or ▽ repeatedly until `Paper Settings >` appears.

```
Paper Settings      >
```

MP Tray Size (Setting MP tray paper size)

When you use the MP tray, you should set the MP tray size to the paper size that is used to format the job to print. If the sizes do not match, printing will not be performed on the correct size paper.

The default setting is `Letter` size for the U.S. and Canada and A4 for other countries. For more information about the paper sizes that you can feed from the MP tray, refer to *Paper Specifications on page 3-2*.

Note Feeding the paper having a paper size which does not match the current paper size from the MP tray can cause paper jam.

1 Press ▷ while `Paper Settings >` is displayed.

2 Press △ or ▽ repeatedly until `>MP Tray Size` appears.

3 Press **[OK]**. A blinking question mark (?) appears.

```
>MP Tray Size
? A4
```

4 Press △ or ▽ to display the desired paper size. The message display toggles through the following paper sizes:

```
Envelope Monarch
Envelope #10
Envelope #9
Envelope #6
Envelope DL
Envelope C5
A6
B6
A5
B5
ISO B5
A4
Executive
Letter
Legal
Custom
Hagaki
OufukuHagaki
```

Oficio II
Statement
Folio
Youkei 2
Youkei 4
16K

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to Ready.

MP Tray Type (Setting the MP tray paper type)

You can use this to set the paper type that can be supplied from the MP tray. The default setting is PLAIN.

For more information about paper types that you can feed from the MP tray, refer to *Paper Specifications on page 3-2*.

1 Press ▷ while Paper Settings > is displayed.

2 Press △ or ▽ repeatedly until >MP Tray Type appears.

3 Press **[OK]**. A blinking question mark (?) appears.

```
>MP Tray Type
? PLAIN
```

4 Press △ or ▽ to display the desired paper type. The message display toggles through the following paper types:

PLAIN
TRANSPARENCY
PREPRINTED
LABELS
BOND
RECYCLED
VELLUM
ROUGH
LETTERHEAD
COLOR
PREPUNCHED
ENVELOPE
CARDSTOCK
COATED
THICK
HIGH QUALITY
CUSTOM 1 (to 8)

Note You can define any paper type and store that definition in the printer. For more information, refer to *Type Adjust (Creating custom paper type) on page 4-34*.

5 Press **[OK]**.

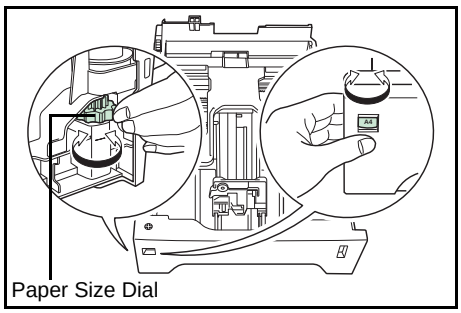
6 Press **[MENU]**. The display returns to Ready.

Cassette (1 to 4) Size (Setting the cassette paper size)

To set the standard sizes A6, A5, A4, B5, Letter, and Legal size for the paper cassette, load the paper and turn the paper size dial so that the size of the paper you are going to use appears in the paper size window. To load a non-standard paper size (sizes other than A6, A5, A4, B5, Letter and Legal) into a paper cassette, refer to the custom paper sizes listed on *page 4-31*.

If the PF-520 or PF-530 optional paper feeder is installed, use the same procedure to load paper into the paper feeder cassettes.

Note The maximum number of cassettes on the d-Color P2021 is three (when two optional paper feeders are installed).



1 Pull the cassette out of the printer and set the paper size using the paper size dial.

2 Adjust the paper guides in the cassette to the size of the paper to be used for printing and load the paper into the cassette.

Custom Paper Size

If you use a non-standard size paper, load the paper and turn the paper size dial to **Other** (refer to *Loading Paper on page 3-14*).

Selecting the Size Dial Setting

1 Pull the cassette out of the printer and set the paper size dial to **Other**. For details, refer to step 1 in *Cassette (1 to 4) Size (Setting the cassette paper size) on page 4-31*.

2 Adjust the paper guides in the cassette to the size of the paper to be used for printing and load the paper into the cassette.

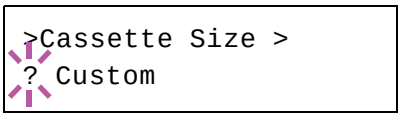
Setting the Paper Size from the Operation Panel

Use the operation panel to set the size of paper loaded in the cassette on the printer. This menu appears if the size dial for the cassette is set to **Other**.

1 Press ▷ while `Paper Settings` > is displayed.

2 Press △ or ▽ repeatedly until >`Cassette Size` > appears. If optional paper feeders are added, `Cassette 1 Size` will appear for the standard paper cassette and `Cassette 2 Size`, `Cassette 3 Size`, and `Cassette 4 Size` will appear for the optional paper feeders.

Note `Cassette4 Size` is only available on the d-Color P2026.



3 Press **[OK]**. A blinking question mark (?) appears.

4 Press △ or ▽ to display the desired paper size. The message display toggles through the following paper sizes:

```
Envelope Monarch
Envelope #10
Envelope #9
Envelope #6
Envelope DL
Envelope C5
A6
A5
B5
ISO B5
A4
Executive
Letter
Legal
Custom
OufukuHagaki
Oficio II
Statement
Folio
Youkei 2
Youkei 4
16K
```

Note A6 is displayed for `Cassette Size` or `Cassette 1 Size`.

`Envelope Monarch`, `Envelope #10`, `Envelope #9`, `Envelope #6`, `Envelope DL`, `OufukuHagaki`, `Youkei 2` and `Youkei 4` are displayed when one of cassettes 2 to 4 in the optional paper feeder PF-520/PF-530 is installed.

5 When the desired paper size is displayed, press **[OK]**. The paper size is set for the paper cassette.

If you selected `Custom` in step 4, be sure to set the unit of measurement and the dimensions of the paper as described in the following sections.

Select the units of measurement as described in the next section.

Unit (Selecting the unit of measurement)

1 Press ▷.

2 Press △ or ▽ repeatedly until >>`Unit` appears. The unit of measurement can be selected between millimeters and inches. The current unit of measurement is displayed (the default setting is `mm`).

3 Press **[OK]**. A blinking question mark (?) appears.

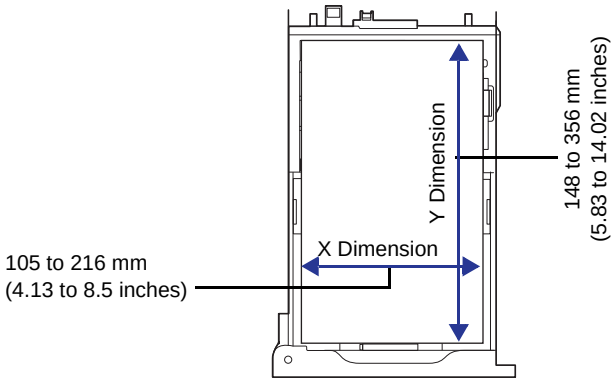
4 Select `mm` or `inch` using △ or ▽.

5 Press **[OK]**.

Set the dimensions of the paper as described in the next section.

Entering the Width and Length

Enter the paper size for `X Dimension` and `Y Dimension` as shown in the figure.



1 When the unit of measurement is set, press ▽.
`>>X Dimension` appears (the paper width setting).

2 Press **[OK]**. A blinking cursor (_) appears.

```
>>X Dimension
                 216_ mm
```

3 Press △ or ▽ to increase or decrease the value of the figure where the cursor is blinking and display the desired width.
Acceptable paper widths are as follows:

- Cassette : 105 to 216 mm (4.13 to 8.5 inches)
- Paper Feeder PF-520/PF-530 (optional) : 92 to 216 mm (3.62 to 8.5 inches)

4 Display the paper width and press **[OK]**.

5 When the width is set, press▽. `>>Y Dimension` appears (the paper length setting). Set the desired length in the same way as the width.
Acceptable paper lengths are as follows:

- Cassette : 148 to 356 mm (5.83 to 14.02 inches)
- Paper Feeder PF-520/PF-530 (optional) : 162 to 356 mm (6.38 to 14.02 inches)

6 Display the paper length, press **[OK]**.

7 Press **[MENU]**. The display returns to `Ready`.

Cassette (1 to 4) Type (Setting the cassette paper type)

By setting a paper type (plain, recycled, etc.) for the paper cassette, you can automatically select the paper in the paper cassette according to the paper type you command on the printing system driver. The default setting is plain paper for all paper cassettes.

If the PF-520 or PF-530 optional paper feeder is installed, use the same procedure to setting the cassette paper type.

For more information about paper types that you can feed from the paper cassette, refer to *Paper Specifications on page 3-2*.

1 Press ▷ while `Paper Settings >` is displayed.

2 Press △ or ▽ repeatedly until `>Cassette Type` appears.

If optional paper feeders are added, `Cassette 1 Type` will appear for the standard paper cassette and `Cassette 2 Type`, `Cassette 3 Type`, and `Cassette 4 Type` will appear for the optional paper feeders.

Note `Cassette 4 Type` is only available on the d-Color P2026.

```
>Cassette Type
? PLAIN
```

3 To change paper type, press **[OK]**. A blinking question mark (?) appears.

4 Press △ or ▽ to display the desired paper type. The message display toggles through the following paper types:

`PLAIN`
`PREPRINTED`
`LABELS`
`BOND`
`RECYCLED`
`ROUGH`
`LETTERHEAD`
`COLOR`
`PREPUNCHED`
`ENVELOPE`
`CARDSTOCK`
`COATED`
`THICK`
`HIGH QUALITY`
`CUSTOM 1` (to 8)

IMPORTANT `LABELS`, `ENVELOPE`, `CARDSTOCK` and `COATED` will only appear when the optional paper feeder PF-530 is installed.

Note You can define any paper type and store that definition in the printer. For more information, refer to *Type Adjust (Creating custom paper type) on page 4-34*.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to `Ready`.

Type Adjust (Creating custom paper type)

The following describes the procedure used to set a user-defined paper type for the printer. Eight custom user settings may be registered. After having been set, any of these may be called up when setting the paper type for a paper source.

The paper weight and duplex path can be set (refer to *Paper Weight (Setting the paper weight) on page 4-35*, and *Duplex Path (Setting the duplex path) on page 4-35*) after selecting the paper type to be customized as follows. For how to reset the customized settings, refer to *Reset Type Adjust (Resetting the custom paper type) on page 4-36*.

1 Press ▷ while `Paper Settings >` is displayed.

2 Press △ or ▽ repeatedly until `>Type Adjust >` appears.

```
>Type Adjust        >
? PLAIN
```

3 Press **[OK]**. A blinking question mark (?) appears.

4 Press △ or ▽ to display the desired paper type. The display changes as shown below.

```
PLAIN
TRANSPARENCY
PREPRINTED
LABELS
BOND
RECYCLED
VELLUM
ROUGH
LETTERHEAD
COLOR
PREPUNCHED
ENVELOPE
CARDSTOCK
COATED
THICK
HIGH QUALITY
CUSTOM 1 (to 8)
```

5 Press **[OK]**.

6 Press ▷ and proceed to the next step *Paper Weight (Setting the paper weight)*.

Paper Weight (Setting the paper weight)

You can set the paper thickness for your custom paper type to be customized.The default setting is `Normal 2`.

1 Display the custom paper type (refer to *Type Adjust (Creating custom paper type) on page 4-34*) and press ▷.

2 Press △ or ▽ repeatedly until `>>Paper Weight` appears.

3 Press **[OK]**. A blinking question mark (?) appears.

```
>>Paper Weight
? Normal 2
```

4 Press △ or ▽ to display the desired paper thickness. The display changes as shown below. For details of the default setting for each paper type, refer to *Paper Specifications on page 3-2*.

```
Light
Normal 1
Normal 2
Normal 3
Heavy 1
Heavy 2
Heavy 3
Extra Heavy
```

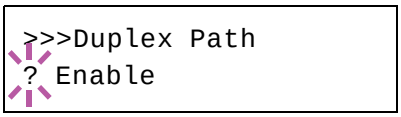
5 Press **[OK]**.

6 Press **[MENU]**. The display returns to `Ready`.

Duplex Path (Setting the duplex path)

1 Display the custom paper type (refer to *Type Adjust (Creating custom paper type) on page 4-34*) and press ▷.

2 Press △ or ▽ repeatedly until `>>Duplex Path` appears.



3 Press **[OK]**. A blinking question mark (?) appears.

4 Select `Enable` or `Disable` using △ or ▽. For details of the default setting for each paper type, refer to *Paper Specifications on page 3-2*.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to `Ready`.

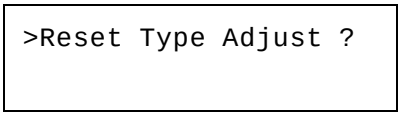
The custom paper type setting is completed.

Reset Type Adjust (Resetting the custom paper type)

Reset all the custom paper type that was set in *Type Adjust (Creating custom paper type) on page 4-34*.

1 Press ▷ while `Paper Settings >` is displayed.

2 Press △ or ▽ repeatedly until `>Reset Type Adjust` appears.



3 Press **[OK]**. A question mark (?) appears.

4 Press **[OK]** again. All customized paper types will be reset to the default. The display returns to `Ready`.

Print Settings

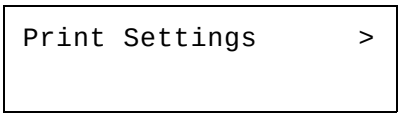
These settings specify printing parameters such as the print quality used for printing (Normal or Fine), the gloss mode (Low or High), the number of copies, reduced printing and the page orientation.

The options available in Print Settings are as follows:

- Paper Source (Selecting the paper feed source)
- Paper Feed Mode (Setting the paper feed source)
- Duplex (Duplex printing)
- Override A4/LT (Overriding difference between A4 and Letter)
- Emulation (Setting the emulation)
- Error Report (Printing KPDL errors)
- Color Mode (Selecting color or Black & White printing)
- Print Quality (Setting print quality)
- Page Set (Setting pagination)

1 Press **[MENU]**.

2 Press △ or ▽ repeatedly until `Print Settings >` appears.



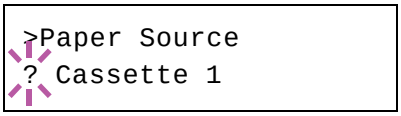
Paper Source (Selecting the paper feed source)

You can select the paper source, from which the printer feeds paper as the default. If an optional paper feeder(s) is installed, it is also available for the default paper source.

1 Press ▷ while `Print Settings >` is displayed.

2 Press △ or ▽ repeatedly until `>Paper Source` appears.

3 To change the current paper feed source, press **[OK]**. A blinking question mark (?) appears.



4 Press △ or ▽ to display the desired paper feed source. The message display toggles through the following paper feed sources, depending on the installed optional paper feeders (from the top most paper cassette to the bottom paper cassette):

```
MP tray
Cassette 1
Cassette 2
Cassette 3
Cassette 4
```

`Cassettes 2`, 3 and 4 are available for selection when the optional paper feeders are installed.

Note `Cassette 4` is only available on the d-Color P2026.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to `Ready`.

Paper Feed Mode (Setting the paper feed source)

This mode specifies how the paper should be fed once the paper feed source and paper type have been chosen. If `Auto` is selected, the printer searches for a paper feed source that matches the paper size and type, and paper is then delivered from that source. If `Fixed` is selected and there is no matching paper feed source, handling proceeds as specified by `Paper Mismatch` for `Error Handling`. For details on paper feeding when `Fixed` is selected, refer to *Paper Mismatch (Detection settings for paper size/type errors when the paper source is fixed) on page 4-58*. The default setting is `Auto`. To change the settings, follow the steps described below.

1 Press ▷ while `Print Settings >` is displayed.

2 Press △ or ▽ repeatedly until `>Paper Feed Mode` appears.

3 Press **[OK]**. A blinking question mark (?) appears.

```
>Paper Feed Mode
? Auto
```

4 Press △ or ▽ until `Auto` or `Fixed` appears.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to `Ready`.

When the Paper Runs Out During Printing

When `Paper Feed Mode` is set to `Fixed`, if the paper in the cassette runs out during printing, `Load Cassette 1` is displayed and the printer stands by. In this event, either replenish the paper in the empty cassette or use the procedure below to print from another paper source.

1 While `Load Cassette 1` is displayed, press △ or ▽ repeatedly until `Use alternative?` appears.

2 Press △ or ▽ repeatedly until the desired paper source and size appears.

Each time you press △ or ▽, another paper cassette or the paper size that can currently be fed from the MP tray appears.

3 Press **[OK]**. Printing continues.

Duplex (Duplex printing)

Using the duplexer, you can automatically print on both sides of the paper. The duplexer is mounted underneath the printer.

Duplex printing is available for the following paper types:

```
PLAIN
PREPRINTED
BOND
RECYCLED
ROUGH
LETTERHEAD
COLOR
PREPUNCHED
THICK
HIGH QUALITY
```

Activating the duplexer is done by selecting either short edge or long edge binding mode.

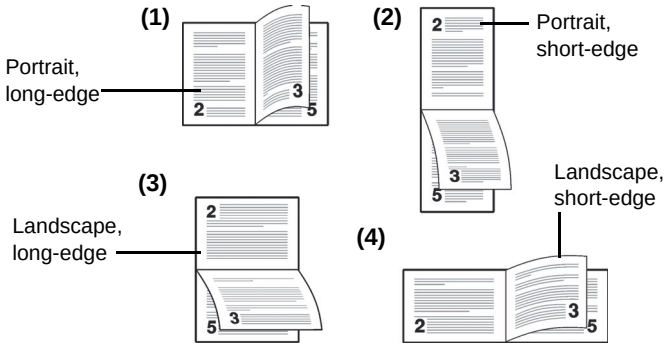
Note Duplex printing can be also performed from the MP tray. If the paper to be fed from the MP tray does not match the paper size and paper type of the current paper feed source cassette, a paper jam may occur.

IMPORTANT Duplex printing for coated paper (COATED) is possible if the optional paper feeder PF-530 is installed.

Binding Modes

Binding refers to the manner in which printed pages of paper are joined together (by gluing, stitching, etc.) in book form. The two possible types of binding are: long-edge binding, in which pages are joined together along their long edge; and short-edge binding, in which they are joined together along their short edge. In selecting a binding type, you must also consider the orientation of the printed page. You can use long-edge or short-edge binding with either landscape or portrait printing.

Depending on the binding type and print orientation, the duplexer provides four types of binding. These are: (1) portrait, long-edge, (2) portrait, short edge, (3) landscape, long-edge, and (4) landscape, short-edge. The figure below shows these binding methods.



1 Press ▷ while `Print Settings >` is displayed.

2 Press △ or ▽ repeatedly until `>Duplex` appears.

3 Press **[OK]**. A blinking question mark (?) appears.

```
>Duplex
? Off
```

4 Press △ or ▽ to display the desired binding mode. The message display toggles through the following:

`Off` (default)

`Short edge bind`

`Long edge bind`

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to `Ready`.

Override A4/LT (Overriding difference between A4 and Letter)

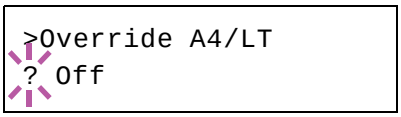
When the Override A4/LT is turned On using the operation panel, the printer ignores the difference between A4 and Letter paper sizes. Printing is performed without an error message even if the actual paper size in the current cassette differs from the paper size formatting the job.

By default, this feature is Off.

1 Press ▷ while Print Settings > is displayed.

2 Press △ or ▽ repeatedly until >Override A4/LT appears.

3 Press **[OK]**. A blinking question mark (?) appears.



4 Select On or Off using △ or ▽.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to Ready.

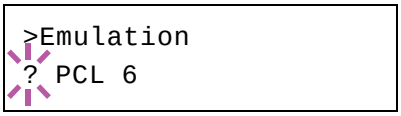
Emulation (Setting the emulation)

You can change the emulation mode for the current interface. Use the procedure below to select the mode.

1 Press ▷ while Print Settings > is displayed.

2 Press △ or ▽ repeatedly until >Emulation > appears on the message display. One of the emulation modes appears, indicating the emulation currently in use.

3 Press **[OK]**. A blinking question mark (?) appears.



4 Press △ or ▽ repeatedly until the desired emulation mode is displayed.

PCL 6
KPDL
KPDL (AUTO)

Note The default setting for North America is KPDL (AUTO) emulation. The default setting for all other regions is PCL 6 emulation.

5 Press **[OK]**.

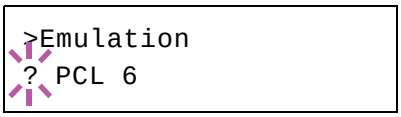
6 Press **[MENU]**. The display returns to Ready.

Error Report (Printing KPDL errors)

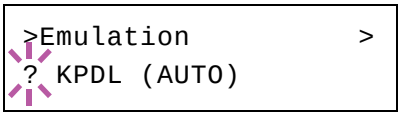
The printer can print error descriptions when printing error occurs during KPDL emulation. The default is On — the printer does not print KPDL errors.

1 Press ▷ while Print Settings > is displayed.

2 Press △ or ▽ repeatedly until >Emulation > appears.



3 Press **[OK]**. A blinking question mark (?) appears.



4 Select KPDL or KPDL (AUTO) using △ or ▽. Press **[OK]**.

5 Press ▷. >>Error Report appears.

6 Press **[OK]**. A blinking question mark (?) appears.

7 Select On or Off using △ or ▽. Press **[OK]**.

8 Press **[MENU]**. The display returns to Ready.

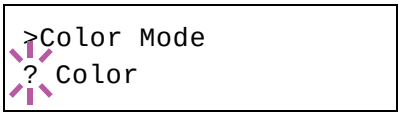
Color Mode (Selecting color or Black & White printing)

You can use the Color Mode menu on the operation panel to select the Black & White or Color printing mode. By default, the printer is set to print in color mode.

1 Press ▷ while `Print Settings >` is displayed.

2 Press △ or ▽ repeatedly until `>Color Mode` appears.

3 Press **[OK]**. A blinking question mark (?) appears.



4 Press △ or ▽ to change color mode — `Color` or `Black & White`.

5 When the desired color mode is displayed, press **[OK]**. Color mode is changed.

6 Press **[MENU]**. The display returns to `Ready`.

Print Quality (Setting print quality)

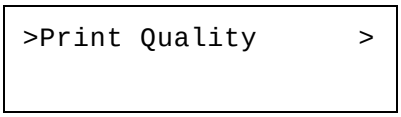
This selects the gloss mode (Low or High) and whether EcoPrint (low-toner printing) is used for printing.

The options available in Print Quality are as follows:

- Gloss Mode (Selecting the gloss mode)
- EcoPrint Mode (Selecting the EcoPrint mode)

1 Press ▷ while `Print Settings >` is displayed.

2 Press △ or ▽ repeatedly until `>Print Quality >` appears.



Gloss Mode (Selecting the gloss mode)

Gloss mode, when set to `High`, increases the effect of glossiness in printing by reducing the printing speed by half. Gloss mode is not available when `LABELS` and `TRANSPARENCY` is selected as the paper type setting.

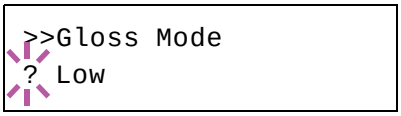
IMPORTANT Depending on the paper used, printing in gloss mode may cause wrinkle in paper. To reduce wrinkle, try using thicker paper.

Use the procedure below to select Gloss mode. The default setting is `Low`.

1 Press ▷ while `>Print Quality >` is displayed.

2 Press △ or ▽ repeatedly until `>>Gloss Mode` appears.

3 Press **[OK]**. A blinking question mark (?) appears.



4 Select `Low` or `High` using △ or ▽.

5 Press **[OK]**.

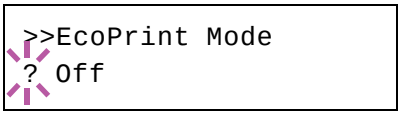
6 Press **[MENU]**. The display returns to `Ready`.

EcoPrint Mode (Selecting the EcoPrint mode)

By enabling EcoPrint mode, you can minimize the amount of toner used during printing. Because images printed in this mode may be slightly coarser than those printed in standard resolution, you should use EcoPrint for test prints or other situations where high-quality prints are not required.

Use the procedure below to select EcoPrint mode. The default setting is `Off`.

1. Press ▷ while `>Print Quality >` is displayed.
2. Press △ or ▽ repeatedly until `>>EcoPrint Mode` appears.
3. Press **[OK]**. A blinking question mark (?) appears.



4. Select `On` or `Off` using △ or ▽.
5. Press **[OK]**.
6. Press **[MENU]**. The display returns to `Ready`.

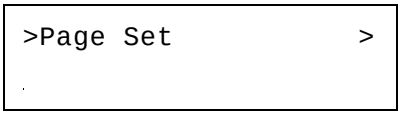
Page Set (Setting pagination)

In Page Set menus, you can set the number of copies, page orientation, and other settings regarding pagination.

The options available in Page Set are as follows:

- Copies (Number of copies)
- Orientation (Print orientation)
- Wide A4 (Wide A4 pitch)
- XPS FitTo Page (Print area setting for XPS data)
- TIFF/JPEG Size (Print mode setting for TIFF/JPEG files)

1. Press ▷ while `Print Settings >` is displayed.
2. Press △ or ▽ repeatedly until `>Page Set >` appears.



Copies (Number of copies)

You can set the number of copies of each page to be printed for the current interface.

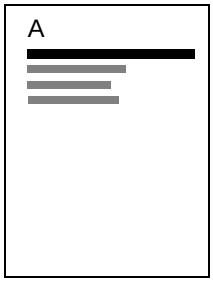
1. Press ▷ while `>Page Set >` is displayed.
2. Press △ or ▽ repeatedly until `>>Copies` appears.
3. Press **[OK]**. A blinking cursor (_) appears.

4. Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. The number of copies can be set between `1` and `999`. Use ◁ and ▷ to move the cursor right and left.
5. When the desired size is displayed, press **[OK]**.
6. Press **[MENU]**. The display returns to `Ready`.

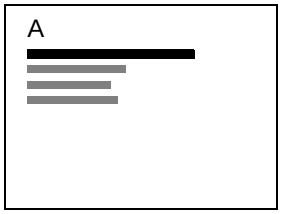
Orientation (Print orientation)

You can select portrait (upright) or landscape (sideways) page orientation.

Portrait Orientation



Landscape Orientation



1 Press ▷ while >Page Set > is displayed.

2 Press △ or ▽ repeatedly until >>Orientation appears.

3 Press **[OK]**. A blinking question mark (?) appears.

```
>>Orientation
? Portrait
```

4 Select Portrait or Landscape using △ or ▽.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to Ready.

Wide A4 (Wide A4 pitch)

Turn this to On to increase the maximum number of characters that can be printed in a line for an A4 page (78 characters at 10 pitch) and Letter size page (80 characters at 10 pitch). This setting is only effective in PCL 6 emulation.

1 Press ▷ while >Page Set > is displayed.

2 Press △ or ▽ repeatedly until >>Wide A4 appears.

3 Press **[OK]**. A blinking question mark (?) appears.

```
>>Wide A4
? Off
```

4 Select On or Off using △ or ▽.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to Ready.

XPS FitTo Page (Print area setting for XPS data)

Select On in this setting to enlarge or reduce XPS files to fit the printable area during printing.

1 Press ▷ while >Page Set > is displayed.

2 Press △ or ▽ repeatedly until >>XPS FitTo Page appears.

3 Press **[OK]**. A blinking question mark (?) appears.

```
>>XPS FitTo Page
? Off
```

4 Select On or Off using △ or ▽.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to Ready.

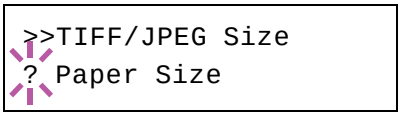
TIFF/JPEG Size (Print mode setting for TIFF/JPEG files)

Use this setting to select the printing method used when TIFF or JPEG files are printed directly. The default setting is Paper Size.

1 Press ▷ while >Page Set > is displayed.

2 Press △ or ▽ repeatedly until >>TIFF/JPEG Size appears.

3 Press **[OK]**. A blinking question mark (?) appears.



4 Press △ or ▽ repeatedly until the desired print mode is displayed. The list shows the following print modes:

Paper Size (scaled to fit the paper size)

Images are resized so that they fill the paper size when printed.

Image Resolution (matched to the image resolution)

Image files are printed at the resolution specified in the resolution information. Images with no resolution information are printed using the Paper Size setting.

Print Resolution (matched to the print resolution)

Images are printed using a 1-to-1 correspondence between the image file pixels and printed dots. For example, the printed size of a 600 × 300-pixel image file is 1 inch × 1/2 inch.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to Ready.

Note Images are automatically rotated during printing to provide a closer match between the aspect ratios of the image file and the paper used for printing.

Network (Network settings)

This printer supports TCP/IP and TCP/IP (IPv6) protocols.

IP is an abbreviation for Internet Protocol. This printer routinely uses the TCP/IP (IPv4) protocol, but provides a separate setting for the next-generation IP, IPv6.

TCP/IP (IPv4) uses 32-bit IP addresses, but the rapid growth in the number of Internet users has resulted in a shortage of IP addresses. IPv6 was developed to expand the range of available IP addresses by using 128-bit IP addresses.

The options available in the Network settings are as follows:

- TCP/IP (IPv4 settings)
- TCP/IP (IPv6) (IPv6 settings)

Note Check with your network administrator when selecting the network setting.

After all network related settings have been done, turn the machine OFF and ON again. This is mandatory to make the settings effective!

When Embedded Web Server is used, network parameters and security settings can be conveniently changed and checked from your PC. For more information, refer to the *Embedded Web Server Operation Guide*.

1 Press **[MENU]**.

2 Press △ or ▽ repeatedly until `Network >` appears.

```
Network                >
```

TCP/IP (IPv4 settings)

This selects the settings for TCP/IP (IPv4).

The TCP/IP system refers to the Internet system, which has a 5-layer structure consisting of the interface layer, link layer, network (IP) layer, transport (TCP/UDP) layer and application layer.

The interface layer is a key layer in the TCP/IP system that provides an abstracted interface that is not dependent on the link (communication line: frame relay or Ethernet, etc.) to the IP module (IP layer). This means that the IP module can use this abstracted interface (which is not dependent on the link type) to exchange IP packets back and forth with the link layer.

The options available in the TCP/IP (IPv4) settings are as follows:

- DHCP (DHCP setting)
- Auto-IP (Auto-IP setting)
- IP Address (IP address setting)
- Subnet Mask (Subnet mask setting)
- Gateway (Gateway setting)
- Bonjour (Bonjour setting)

IMPORTANT The DHCP, IP address, subnet mask, gateway and Bonjour menu options for TCP/IP are displayed when TCP/IP is enabled.

1 Press ▷ while `Network >` is displayed.

2 Press △ or ▽ repeatedly until >TCP/IP > appears.

3 Press **[OK]**. A blinking question mark (?) appears.

4 Select On or Off using △ or ▽.

5 Select On and press **[OK]**. Configure the settings shown below.

DHCP (DHCP setting)

DHCP (Dynamic Host Configuration Protocol) is the protocol that assigns the information required to establish a network connection when a host attempts to connect to the network (Internet). This information includes the IP address of the local node and the default router (the router in the host's own network system) and the DNS (Domain Name System) server. DHCP is an extension of the BOOTP (Bootstrap) startup protocol.

1 Press ▷ while >TCP/IP On > is displayed.

2 Press △ or ▽ repeatedly until >>DHCP appears.

3 Press **[OK]**. A blinking question mark (?) appears.

4 Select On or Off using △ or ▽.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to Ready.

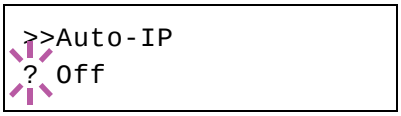
Auto-IP (Auto-IP setting)

This protocol is used for automatic assignment of an IP address when you connect to a small network that does not have a DHCP server. Select an address from the range 169.254.0.1 to 169.254.255.254, and if no other device on the network is using that address, it is used as your address.

1 Press ▷ while >TCP/IP On > or >TCP/IP Off > is displayed.

2 Press △ or ▽ repeatedly until >>Auto-IP appears.

3 Press **[OK]**. A blinking question mark (?) appears.



4 Select On or Off using △ or ▽.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to Ready.

IP Address (IP address setting)

An IP address is the address of a network device such as a computer and is included in IP packets as needed for the sending and receiving of Internet data (IP packets). (IP addresses can be either destination addresses or source addresses.)

Specifically, an IP address is a bit string consisting of a host address (or host section) that identifies a computer (host) connected to the Internet and a network address (or network section) that identifies the network to which that computer belongs (or more specifically, the computer's

network interface). Bit strings (IP addresses) that are unique throughout the entire Internet system are allocated to each computer or interface.

The IP addresses currently used on the Internet (IPv4) have a fixed length of 32 bits.

Note When you enter the IP address, be sure to set the DHCP setting to Off.

1. Press ▷ while >TCP/IP On > is displayed.
2. Press △ or ▽ repeatedly until >>IP Address appears.
3. Press **[OK]**. A blinking cursor (_) appears.

```
>>IP Address
 000.000.000.000
```

4. Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. You can set any value between 000 and 255. Use ◁ and ▷ to move the cursor right and left.
5. Display the desired IP address and press **[OK]**.
6. Press **[MENU]**. The display returns to Ready.

Subnet Mask (Subnet mask setting)

The subnet mask is a way of augmenting the network address section of an IP address.

A subnet mask represents all network address sections as 1 and all host address sections as 0. The number of bits in the prefix indicates the length of the network address. The term "prefix" refers to something added to the beginning and, in this context, indicates the first section of the IP address.

When an IP address is written, the length of the network address can indicated by the prefix length after a forward slash (/). For example, "24" in the address "133.210.2.0/24". In this way, "133.210.2.0/24" denotes the IP address "133.210.2.0" with a 24-bit prefix (network section).

This new network address section (originally part of the host address) made possible by the subnet mask is referred to as the subnet address.

Note When you enter the subnet mask, be sure to set the DHCP setting to Off.

1. Press ▷ while >TCP/IP On > is displayed.
2. Press △ or ▽ repeatedly until >>Subnet Mask appears.
3. Press **[OK]**. A blinking cursor (_) appears.

```
>>Subnet Mask
 000.000.000.000
```

4. Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. You can set any value between 000 and 255. Use ◁ and ▷ to move the cursor right and left.
5. Display the desired subnet mask and press **[OK]**.
6. Press **[MENU]**. The display returns to Ready.

Gateway (Gateway setting)

Gateway generally refers to a protocol conversion device used to allow networks with differing protocol systems to interconnect.

For example, a "Gateway" device is required to connect a different closed network (using its own protocols) to the open Internet (using TCP/IP).

By installing a gateway, the communications protocols and data display modes on different networks can be made compatible.

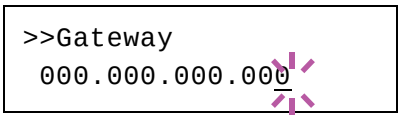
On TCP/IP networks, the term gateway is used to refer to routers.

Note Before you input the gateway, be sure to set the DHCP setting to Off.

1 Press ▷ while >TCP/IP On > is displayed.

2 Press △ or ▽ repeatedly until >>Gateway appears.

3 Press **[OK]**. A blinking cursor (_) appears.



4 Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. You can set any value between 000 and 255. Use ◁ and ▷ to move the cursor right and left.

5 Display the desired gateway and press **[OK]**.

6 Press **[MENU]**. The display returns to Ready.

Bonjour (Bonjour setting)

Bonjour, also known as zero-configuration networking, is a service that automatically detects computers, devices and services on an IP network.

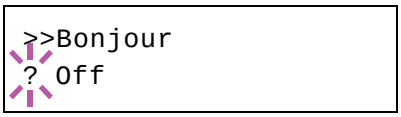
Bonjour, because an industry-standard IP protocol is used, allows devices to automatically recognize each other without an IP address being specified or DNS server being set.

Bonjour also sends and receives network packets by UDP port 5353. If a firewall is enabled, the user must check that UDP port 5353 is left open so that Bonjour will run correctly. Some firewalls are set up so as to reject only certain Bonjour packets. If Bonjour does not run stably, check the firewall settings and ensure that Bonjour is registered on the exceptions list and that Bonjour packets are accepted. If you install Bonjour on Windows XP Service Pack 2 or later, the Windows firewall will be set up correctly for Bonjour.

1 Press ▷ while >TCP/IP On > is displayed.

2 Press △ or ▽ repeatedly until >>Bonjour appears.

3 Press **[OK]**. A blinking cursor (_) appears.



4 Select On or Off using △ or ▽.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to Ready.

TCP/IP (IPv6) (IPv6 settings)

This selects the settings for TCP/IP (IPv6).

TCP/IP (IPv6) is based on the current Internet protocol, TCP/IP (IPv4). IPv6 is the next-generation Internet protocol and expands the available address space, which resolves the problem of the lack of addresses under IPv4, while also introducing other improvements such as additional security functionality and the capacity to prioritize data transmission.

The options available in the TCP/IP (IPv6) settings are as follows:

- RA (Stateless) (RA (Stateless) setting)
- DHCPv6 (DHCPv6 setting)

IMPORTANT The RA (Stateless) and DHCPv6 menu options for TCP/IP (IPv6) are displayed when TCP/IP (IPv6) is enabled.

1 Press ▷ while `Network >` is displayed.

2 Press △ or ▽ repeatedly until `>TCP/IP (IPv6) >` appears.

3 Press **[OK]**. A blinking question mark (?) appears.

```
>TCP/IP (IPv6) >
? Off
```

4 Select `On` or `Off` using △ or ▽.

5 Select `On` and press **[OK]**. Configure the settings shown below.

RA (Stateless) (RA (Stateless) setting)

The IPv6 router communicates (transmits) information such as the global address prefix using ICMPv6. This information is the Router Advertisement (RA).

ICMPv6 stands for Internet Control Message Protocol, and is a IPv6 standard defined in the RFC 2463 "Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification".

1 Press ▷ while `>TCP/IP (IPv6)  On >` is displayed.

2 Press △ or ▽ repeatedly until `>>RA(Stateless)` appears.

3 Press **[OK]**. A blinking question mark (?) appears.

```
>>RA(Stateless)
? Off
```

4 Select `On` or `Off` using △ or ▽.

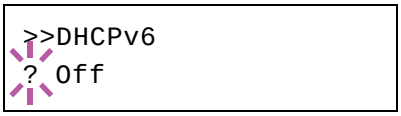
5 Press **[OK]**.

6 Press **[MENU]**. The display returns to `Ready`.

DHCPv6 (DHCPv6 setting)

DHCPv6 is the next-generation of the Internet's Dynamic Host Configuration Protocol and supports IPv6. It extends the BOOTP startup protocol that defines the protocols used for transferring configuration information to hosts on the network.

DHCPv6 permits the DHCP server to use its expanded functionality to send configuration parameters to an IPv6 node. Because the network addresses that can be used are allocated automatically, the IPv6 node management workload is reduced in systems where the administrator has to exercise close control over IP address allocation.



1. Press ▷ while >TCP/IP (IPv6) On > is displayed.
2. Press △ or ▽ repeatedly until >>DHCPv6 appears.
3. Press **[OK]**. A blinking question mark (?) appears.
4. Select On or Off using △ or ▽.
5. Press **[OK]**.
6. Press **[MENU]**. The display returns to Ready.

Device Common (Selecting/Setting the common device)

Selects/sets all the functions in this printer.

The options available in Device Common are as follows:

- Message Language (Selecting the message language)
- Date Setting (Date and time settings)
- Buzzer (Alarm (Buzzer) setting)
- RAM Disk Mode (Using the RAM disk)
- Hard Disk (Using the optional hard disk)
- Error Handling (Error detection setting)
- Timer (Timer setting)

1 Press **[MENU]**.

2 Press △ or ▽ repeatedly until `Device Common >` appears.

```
Device Common       >
```

Message Language (Selecting the message language)

You can select the language of the message display by following the procedure given below. You can optionally download messages in other languages. Contact your service technician for information.

1 Press ▷ while `Device Common >` is displayed.

2 Press △ or ▽ repeatedly until `>Message Language` appears. The default message language is `English`.

3 To change the language, press **[OK]**. A blinking question mark (?) appears.

```
>Message Language
? English
```

4 Press △ or ▽. The display cycles through the available selection in the following order:

```
English
Français
Deutsch
Italiano
Nederlands
Español
Русский
Português
```

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to `Ready`.

Date Setting (Date and time settings)

Set the date and time.

The date and time settings consist of the following items:

- Date (date setting)
- Time (time setting)
- Date Format (date format selection)

1 Press ▷ while `Device Common >` is displayed.

```
>Date Setting       >
```

2 Press △ or ▽ repeatedly until >Date Setting > appears.

Date (date setting)

1 Press ▷ while >Date Setting > is displayed.

2 Press △ or ▽ repeatedly until >>Date (Year/Mon/Day) appears.

3 Press **[OK]**. A blinking cursor (_) appears.

```
>>Date (Year/Mon/Day)
2010 / 01 / 01
```

4 Use the arrow keys to set the year, month, and day. Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. Use ◁ and ▷ to move the cursor right and left.

Note The order in which the year, month, and day appear varies depending on the Date Format (date format selection) setting on page 4-53.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to Ready.

Time (time setting)

1 Press ▷ while >Date Setting > is displayed.

2 Press △ or ▽ repeatedly until >>Time (Hour:Min:Sec) appears.

3 Press **[OK]**. A blinking cursor (_) appears.

```
>>Time (Hour:Min:Sec)
11 : 19 : 21
```

4 Use the arrow keys to set the hour, minute, and second. Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. Use ◁ and ▷ to move the cursor right and left.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to Ready.

Date Format (date format selection)

One of three formats can be selected for the date format.

1 Press ▷ while >Date Setting > is displayed.

2 Press △ or ▽ repeatedly until >>Date Format appears.

3 Press **[OK]**. A blinking question mark (?) appears.

```
>>Date Format
? Month/Day/Year
```

4 Press △ or ▽ to select Date Format. The following date formats can be selected:

Month/Day/Year

Day/Month/Year

Year/Month/Day

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to Ready.

Buzzer (Alarm (Buzzer) setting)

This function uses tones to notify the user of printer operations and the printer status. This setting is useful, for example, when the printer is located some distance from the user.

The options available in Buzzer are as follows:

- Key Confirm. (Key confirmation tone setting)
- Job End (Job completed tone setting)
- Ready (Preparation completed tone setting)
- Error (Error tone setting)

1 Press ▷ while Device Common > is displayed.

2 Press △ or ▽ repeatedly until >Buzzer > appears.

```
>Buzzer              >
```

Key Confirm. (Key confirmation tone setting)

When On is selected in this setting, a tone sounds each time a key is used. The default setting is On.

1 Press ▷ while >Buzzer > is displayed.

2 Press △ or ▽ repeatedly until >>Key Confirmation appears.

3 Press **[OK]**. A blinking question mark (?) appears.

```
>>Key Confirmation
? On
```

4 Select On or Off using △ or ▽.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to Ready.

Job End (Job completed tone setting)

When On is selected in this setting, a tone sounds when printing ends. The default setting is Off.

1 Press ▷ while >Buzzer > is displayed.

2 Press △ or ▽ repeatedly until >>Job End appears.

3 Press **[OK]**. A blinking question mark (?) appears.

```
>>Job End
? Off
```

4 Select On or Off using △ or ▽.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to Ready.

Ready (Preparation completed tone setting)

When On is selected in this setting, a tone sounds when print preparation has been completed. The default setting is Off.

1 Press ▷ while >Buzzer > is displayed.

2 Press △ or ▽ repeatedly until >>Ready appears.

3 Press **[OK]**. A blinking question mark (?) appears.

4 Select On or Off using △ or ▽.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to Ready.

Error (Error tone setting)

When On is selected in this setting, a tone sounds when a problem such as running out of paper or a paper jam occurs during printing. The default setting is On.

1 Press ▷ while >Buzzer > is displayed.

2 Press △ or ▽ repeatedly until >>Error appears.

3 Press **[OK]**. A blinking question mark (?) appears.

4 Select On or Off using △ or ▽.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to Ready.

RAM Disk Mode (Using the RAM disk)

The RAM disk is a memory space shared within the printer memory that can temporarily store print jobs. The stored print job can then be used to print multiple copies of the job reducing the total amount of time required to print the whole job. It acts similar to the hard disk except that the data is effective only when the printer is powered up.

To use the RAM disk, activate and enter the desired size of the RAM disk in the manner described below. The maximum RAM disk size can be calculated as follows:

When the RAM disk is activated = The maximum RAM disk size is 16MB (when no options are attached)

When the optional memory is installed = The maximum RAM disk size is 1/2 of the total optional memory installed

To activate RAM disk in the printer's memory, first you must set the RAM disk mode to On and set the desired data size for the RAM disk as described in the following section. This allows you to perform the following operations on the RAM disk.

Note The printer supports two types of storage device: optional hard disk and RAM disk. The hard disk is installed into the dedicated slot on the printer. The RAM disk is an allocated part of the printer’s memory.

IMPORTANT The RAM disk can not be used when an optional hard disk is installed.

The RAM disk stores data only temporarily. When the printer is reset or turned off, the stored data will be erased.

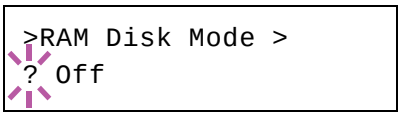
The RAM disk allows some Job Box functions to be used.

The RAM disk is allocated from the printer memory available to users. If the size of the RAM disk is set too large, the printing speed may decrease or the memory may become insufficient.

1 Press ▷ while `Device Common` > is displayed.

2 Press △ or ▽ repeatedly until >`RAM Disk Mode` > appears.

3 Press **[OK]**. A blinking question mark (?) appears.



4 Select `On` or `Off` using △ or ▽.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to `Ready`.

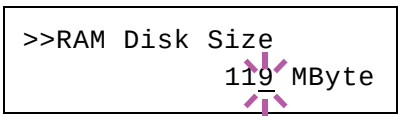
RAM Disk Size (Setting the RAM disk size)

Use this procedure to set the amount of memory used for the RAM disk.

IMPORTANT The RAM Disk Size menu option only appears when `RAM Disk Mode` is set to `On`.

1 Press ▷ while >`RAM Disk Mode On` > is displayed.

2 Press **[OK]**. The message display shows a blinking cursor (_). Press △ or ▽ to display the desired size. Definable RAM disk size is `001` to `512`. Use ◁ and ▷ to move the cursor right and left.



This range varies depending on the total memory size of the printer.

3 When the desired RAM disk size is displayed, press **[OK]**.

4 Press **[MENU]**. The display returns to `Ready`. Turn the printer off and then on again. The selected RAM disk size is activated after the printer is restarted.

Hard Disk (Using the optional hard disk)

Installing the optional hard disk into the printer allows you to perform the following operations on the hard disk.

- Format (Formatting hard disk)

When an optional hard disk is inserted into the printer for the first time, it must be formatted before use.

This menu is displayed only when the optional hard disk is installed on the printer.

Note If the optional hard disk is installed in the printer, the Custom Box and Job Box will be available.

An optional hard disk can only be installed on the d-Color P2026.

1 Press ▷ while `Device Common` > is displayed.

```
>Hard Disk          >
```

2 Press △ or ▽ repeatedly until >Hard Disk > appears.

Format (Formatting hard disk)

A new hard disk must be formatted before it can be used in the printer. Formatting allows data to be written to the hard disk.

This menu is displayed only when the optional hard disk is installed on the printer.

Note Formatting will destroy any existing data on a storage device including a used hard disk.
Formatting of the hard disk must be executed from the printer.

Use the procedure below to format the hard disk.

When a new hard disk is inserted in the printer's slot, Format error Hard disk will appear on the message display.

1 Press ▷ while >Hard Disk > is displayed.

2 >>Format appears.

```
>>Format ?
```

3 Press **[OK]**. A blinking question mark (?) appears.

4 Press **[OK]** again.

Processing appears and formatting of the hard disk starts. When the formatting is successfully completed, the display returns to Ready.

Error Handling (Error detection setting)

This specifies the settings for the detection methods used for duplex printing errors and for paper size and paper type errors when the paper source is fixed.

The options available in Error Handling are as follows:

- Duplex (Duplex printing error detection setting)
- Paper Mismatch (Detection settings for paper size/type errors when the paper source is fixed)
- MP Tray Empty (Warning when the MP tray is empty)

1 Press ▷ while Device Common > is displayed.

```
>Error Handling     >
```

2 Press △ or ▽ repeatedly until >Error Handling > appears.

Duplex (Duplex printing error detection setting)

If the error detection setting for duplex printing has been turned On, and you attempt to print onto a paper size and paper type that cannot be used for duplex printing, the Duplex disabled Press GO error message will be displayed and printing will stop.

On	• To print onto one-side of the paper only when this message is displayed, press **[GO]**. • Press **[Cancel]** to cancel the printing itself.

Off	• To print onto one-side of the paper.

1 Press ▷ while >Error Handling > is displayed.

2 Press △ or ▽ repeatedly until >>Duplex appears.

3 Press **[OK]**. A blinking question mark (?) appears.

```
>>Duplex
? On
```

4 Select On or Off using △ or ▽.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to Ready.

Paper Mismatch (Detection settings for paper size/type errors when the paper source is fixed)

Turn this setting to Off if you want to continue printing even if the paper size or type you specified is different from the fixed paper source, or turn it to On to have the paper feed error displayed.

1 Press ▷ while >Error Handling > is displayed.

2 Press △ or ▽ repeatedly until >>Paper Mismatch appears.

3 Press **[OK]**. A blinking question mark (?) appears.

```
>>Paper Mismatch
? On
```

4 Select On or Off using △ or ▽.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to Ready.

MP Tray Empty (Warning when the MP tray is empty)

Turn this setting to On if you want the error displayed when the MP tray is configured as the default paper source, and there is no paper in the MP tray, or turn it to Off not to have the error displayed.

The setting On enables the paper-empty message to display when the MP tray is empty.

1 Press ▷ while >Error Handling > is displayed.

2 Press △ or ▽ repeatedly until >>MP Tray Empty appears.

3 Press **[OK]**. A blinking question mark (?) appears.

```
>>MP Tray Empty
? On
```

4 Select On or Off using △ or ▽.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to Ready.

Timer (Timer setting)

This specifies timer-related settings such as the automatic form-feed timeout and the timeout settings for Auto Sleep.

The options available in Timer are as follows:

- Form Feed Time Out (Automatic form feed timeout setting)
- Sleep Timer (Sleep timer timeout time)
- Auto Error Clear (Auto error clear setting)
- Error Clear Timer (Setting the error clear time)
- Auto Panel Reset (Auto panel reset settings)
- Panel Reset Timer (Setting the panel reset timer)

1 Press ▷ while `Device Common >` is displayed.

2 Press △ or ▽ repeatedly until `>Timer >` appears.

```
>Timer                >
```

Form Feed Time Out (Automatic form feed timeout setting)

If the printer receives no data for a certain period, it will time out and release the current interface. It prints whatever data it has in its buffer and feeds out the page. The default form feed timeout time is `30` seconds.

1 Press ▷ while `>Timer >` is displayed.

2 Press △ or ▽ repeatedly until `>>Form Feed Time Out` appears.

3 Press **[OK]**. A blinking cursor (_) appears.

```
>>Form Feed Time Out
        005sec.
```

4 Press △ or ▽ to increase or decrease the value at the blinking cursor and set the desired time. The timeout time can be between `5` and `495` seconds, in 5-second increments. Use ◁ and ▷ to move the cursor right and left.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to `Ready`.

Sleep Timer (Sleep timer timeout time)

You can adjust the length of time the printer waits before entering Auto Sleep in the absence of data.

The printer reverts to normal operation mode when the printer receives a print job, the operation panel is operated, or one of the exterior covers is opened. The default time is `1` minute.

Note Color calibration is automatically executed before the printer reverts to normal operation mode.

1 Press ▷ while `>Timer >` is displayed.

2 Press △ or ▽ repeatedly until `>>Sleep Timer` appears.

3 To change the timeout time, press **[OK]**. A blinking cursor (_) appears.

```
>>Sleep Timer
        001 min.
```

4 Press △ or ▽ to increase or decrease the value at the blinking cursor and set the desired time. The timer can be set between 1 and 240 min. Use ◁ and ▷ to move the cursor right and left.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to Ready.

Auto Error Clear (Auto error clear setting)

If an error that still allows you to continue printing occurs, the next received data is automatically printed after a set period of time elapses. For example, if the printer is shared over a network as a network printer and one person causes one of the above errors, after the set period of time elapses, the data sent from the next person is printed. The default setting is Off (Auto Error Clear disabled).

The auto clear errors are:

- Memory overflow Press GO
- Print overrun Press GO
- KPDL error ## Press GO
- Hard disk error ## Press GO
- RAM disk error## Press GO
- Illegal Account Press GO
- Exceeded Max.out Press GO
- Job restricted Press GO
- Account error ## Press GO
- Duplex disabled Press GO
- Job not stored Press GO
- No multi copies Press GO
- USB memory error ## Press GO

For setting the auto error clear recovery time, refer to the next section *Error Clear Timer (Setting the error clear time)*.

1 Press ▷ while >Timer > is displayed.

2 Press △ or ▽ repeatedly until >>Auto Error Clear appears.

3 Press **[OK]**. A blinking question mark (?) appears.

```
>>Auto Error Clear
? Off
```

4 Select On or Off using △ or ▽.

5 Press **[OK]**.

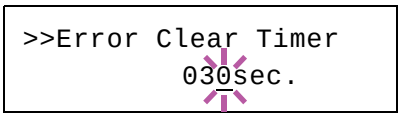
6 Press **[MENU]**. The display returns to Ready.

Error Clear Timer (Setting the error clear time)

If Auto Error Clear is set to On and a non-fatal error (an error that allows printing to continue) occurs, this setting specifies the time until the error is recovered and printing resumes.

1 Press ▷ while >Timer > is displayed.

2 Press △ or ▽ repeatedly until >>Error Clear Timer appears.



3 Press **[OK]**. A blinking cursor (_) appears.

4 Press △ or ▽ to increase or decrease the value at the blinking cursor and set the desired time. The time must be set between `005` and `495` seconds, in 5-second increments. You can use ◁ and ▷ to move the cursor right and left.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to `Ready`.

Auto Panel Reset (Auto panel reset settings)

The Auto Panel Reset function automatically restores the default settings if the panel is not used for a set time. The default setting is `On`.

For setting the time until the panel is reset, refer to the next section *Panel Reset Timer (Setting the panel reset timer)*.

1 Press ▷ while `>Timer >` is displayed.

2 Press △ or ▽ repeatedly until `>>Auto Panel Reset` appears.

3 Press **[OK]**. A blinking question mark (?) appears.

4 Select `On` or `Off` using △ or ▽.

5 Press **[OK]**.

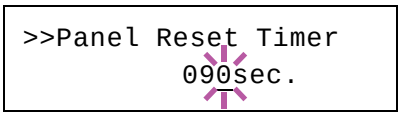
6 Press **[MENU]**. The display returns to `Ready`.

Panel Reset Timer (Setting the panel reset timer)

When Auto Panel Reset is set to `On`, this sets the time until the panel is automatically reset after the user stops using the panel.

1 Press ▷ while `>Timer >` is displayed.

2 Press △ or ▽ repeatedly until `>>Panel Reset Timer` appears.



3 Press **[OK]**. The message display shows a blinking cursor (_).

4 Press △ or ▽ to increase or decrease the value at the blinking cursor and set the desired time. The time must be set between `005` and `495` seconds, in 5-second increments. Use ◁ and ▷ to move the cursor right and left.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to `Ready`.

Security

The security functions can be set up to protect printer operation and the print data.

The options available in Security are as follows:

- ID (Administrator ID input)
- Password (Administrator Password input)
- I/F Block (Interface (external device) block setting)
- NetWare (NetWare setting)
- AppleTalk (AppleTalk setting)
- IPP (IPP setting)
- SSL Server (SSL Server setting)
- IPSec (IPSec setting)
- Security Level (Security Level setting)
- Thin Print (Thin Print setting)

Note When Embedded Web Server is used, network parameters and security settings can be conveniently changed and checked from your PC. For more information, refer to the *Embedded Web Server Operation Guide*.

1 Press **[MENU]**.

2 Press △ or ▽ repeatedly until `Security >` appears.

```
Security                >
```

ID (Administrator ID input)

To use the Security function, you must enter an administrator ID. For information on how to set the administrator ID, refer to *Administrator (Administrator settings) on page 4-76*.

1 Press ▷ while `Security >` is displayed.

2 The message display shows `ID` and a blinking cursor (_).

```
ID
_
```

3 Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified ID. Use ◁ and ▷ to move the cursor right and left. Enter an ID consisting of between 1 and 16 numbers.

4 Press **[OK]**. Proceed to the next step *Password (Administrator Password input)*.

Password (Administrator Password input)

To set up the Security functions, you must enter an administrator ID and administrator password. For information on how to set the administrator password, refer to *Administrator (Administrator settings) on page 4-76*.

1 Once you have entered the correct ID in the previous step (ID (Administrator ID input)), the message display shows `Password` (Administrator password input) and a blinking cursor (_).

```
Password
_
```

2 Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified password. Use ◁ and ▷ to move the cursor right and left. Enter a password consisting of between 0 (no settings) and 16 numbers.

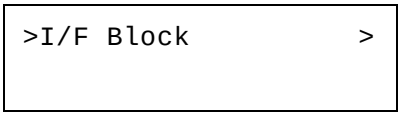
Note If you enter the incorrect administrator ID or password, the message `Wrong ID` or `Wrong Password` appears and the input screen then reappears. Re-enter the ID or password correctly.

3 Press **[OK]**. The Security screen appears.

I/F Block (Interface (external device) block setting)

You can use this to lock and thereby protect the interface. The options available in Interface Block are as follows:

- USB Host (USB memory slot setting)
- USB Device (USB interface setting)
- Optional Interface (Network interface card setting)



1 After entering the administrator ID and password, press △ or ▽ repeatedly until `>I/F Block >` appears.

USB Host (USB memory slot setting)

This locks and protects the USB memory slot (USB host). The default setting is `Unblock`.

1 Press ▷ while `>I/F Block >` is displayed. `>>USB Host` appears.

2 Press **[OK]**. A blinking question mark (?) appears.

3 Select `Block` or `Unblock` using △ or ▽.

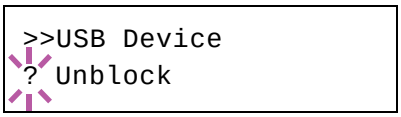
4 Press **[OK]**.

5 Press **[MENU]**. The display returns to `Ready`.

USB Device (USB interface setting)

This locks and protects the USB interface. The default setting is `Unblock`.

1 Press ▷ while `>I/F Block >` is displayed. `>>USB Device` appears.



2 Press **[OK]**. A blinking question mark (?) appears.

3 Select `Block` or `Unblock` using △ or ▽.

4 Press **[OK]**.

5 Press **[MENU]**. The display returns to `Ready`.

Optional Interface (Network interface card setting)

This locks and protects the network interface card (NIC). The default setting is Unblock.

Note Option I/F is displayed only when the optional network interface is installed on the printer.

1 Press ▷ while >I/F Block > is displayed. >>Option I/F appears.

2 Press **[OK]**. A blinking question mark (?) appears.

```
>>Option I/F
? Unblock
```

3 Select Block or Unblock using △ or ▽.

4 Press **[OK]**.

5 Press **[MENU]**. The display returns to Ready.

NetWare (NetWare setting)

NetWare is a PC-based network operating system specifically for servers.

NetWare is a client-server system that operates by installing the NetWare OS on the server and dedicated client modules (NetWare clients) on the client machines (running MS-DOS, OS/2, Windows, etc.). The basic network layer protocol used is NetWare's own IPX (Internetwork Packet eXchange)/SPX (Sequenced Packet eXchange), but the system also supports TCP/IP.

The feature of the NetWare OS is that it is specifically for servers, unlike general-purpose operating systems such as Windows NT and UNIX. Only the minimum required for server operation can be performed from the NetWare OS console on the server. Server and file management is basically carried out using management tools from the clients. Also, all drivers and protocol stacks are in the form of modules called NetWare Loadable Modules (NLMs), and the ability of NLMs to load and unload flexibly and dynamically is a major advantage of this system.

The default setting is On.

Note Check with your network administrator when selecting network settings.

1 After entering the administrator ID and password, press △ or ▽ repeatedly until >NetWare > appears.

```
>NetWare                >
```

2 Press **[OK]**. A blinking question mark (?) appears.

```
>NetWare                >
? On
```

3 Select On or Off using △ or ▽.

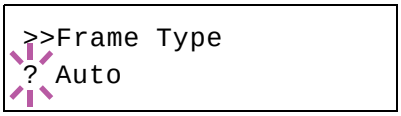
4 Press **[OK]**.

5 Press **[MENU]**. The display returns to Ready.

Frame Type (Frame type setting)

Sets the NetWare frame type. Frame is a term referring to a set of data that flows through the network. The default setting is Auto.

1 Press ▷ while >NetWare On > is displayed. >>Frame Type appears.



2 Press **[OK]**. A blinking question mark (?) appears.

3 Press △ or ▽ until the desired frame type appears and then press **[OK]**. The message display toggles through the following types:

- Auto
- 802.3
- Ethernet-II
- SNAP
- 802.2

4 Press **[OK]**.

5 Press **[MENU]**. The display returns to Ready.

AppleTalk (AppleTalk setting)

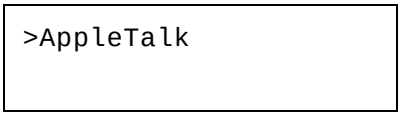
AppleTalk is a communications protocol used primarily on Macintosh computers and also refers to the Mac OS network functions.

AppleTalk assigns 24-bit network addresses (a 16-bit network section and an 8-bit node address) that are used to identify devices (computers, printers, etc.) on the network.

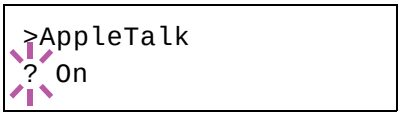
When the power is turned on, a broadcast signal is sent out onto the network and the addresses and machine names are automatically assigned.

The default setting is On.

Note Check with your network administrator when selecting network settings.



1 After entering the administrator ID and password, press △ or ▽ repeatedly until >AppleTalk appears.



2 Press **[OK]**. A blinking question mark (?) appears.

3 Select On or Off using △ or ▽.

4 Press **[OK]**.

5 Press **[MENU]**. The display returns to Ready.

IPP (IPP setting)

IPP (Internet Printing Protocol) is a standard that uses TCP/IP networks such as the Internet to enable print jobs to be sent between remote computers and printers.

IPP is an extension of the HTTP protocol used to view websites and enables printing to be carried out via routers on printers in remote locations. It also supports the HTTP authentication mechanisms along with SSL server and client authentication as well as encryption.

The default setting is Off.

Note Check with your network administrator when selecting network settings.

1 After entering the administrator ID and password, press △ or ▽ repeatedly until >IPP appears.

2 Press **[OK]**. A blinking question mark (?) appears.

3 Select On or Off using △ or ▽.

4 Press **[OK]**.

5 Press **[MENU]**. The display returns to Ready.

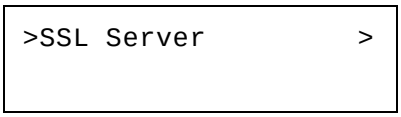
SSL Server (SSL Server setting)

SSL (Secure Sockets Layer) refers to a protocol used to encrypt information sent and received over a network. SSL can currently be used to encrypt data such as the WWW or FTP files widely used on the Internet so that privacy-related information, credit card numbers, corporate secrets and other confidential information can be sent and received safely.

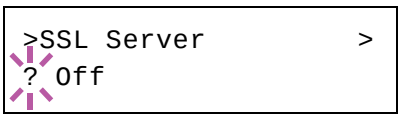
SSL servers use this protocol to authenticate servers and clients.

The default setting is Off.

Note Check with your network administrator when selecting network settings.



1 After entering the administrator ID and password, press △ or ▽ repeatedly until >SSL Server > appears.



2 Press **[OK]**. A blinking question mark (?) appears.

3 Select On or Off using △ or ▽.

4 Press **[OK]**.

5 Press **[MENU]**. The display returns to Ready.

DES (SSL Server DES setting)

DES (Data Encryption Standard) is a typical symmetric-key cryptographic algorithm that divides data in to 64-bit blocks and then encrypts each block using a 56-bit key.

Note Symmetric-key cryptography, because it uses the same key for both encryption and decryption, uses the same key in both directions when encrypted data is exchanged. Accordingly, to prevent the key from being divulged, key transfer and storage must be very strictly managed.

The default setting is Off.

1 Press ▷ while >SSL Server On > is displayed. >>DES appears.

2 Press **[OK]**. A blinking question mark (?) appears.

3 Select On or Off using △ or ▽.

4 Press **[OK]**.

5 Press **[MENU]**. The display returns to Ready.

3DES (SSL Server 3DES setting)

3DES (Triple Data Encryption Standard) is a high level of encryption in which DES encryption is repeated threefold.

The default setting is On.

1 Press ▷ while >SSL Server On > is displayed. >>3DES appears.

2 Press **[OK]**. A blinking question mark (?) appears.

3 Select On or Off using △ or ▽.

4 Press **[OK]**.

5 Press **[MENU]**. The display returns to Ready.

AES (SSL Server AES setting)

AES (Advanced Encryption Standard) was developed to replace DES as the standard encryption as the safety of DES has declined. AES is a block encryption system that uses 128-bit blocks and an SPN structure (a typical structure for repeated encryption) with three selectable key lengths of 128, 192 and 256 bits.

The default setting is On.

1 Press ▷ while >SSL Server On > is displayed. >>AES appears.

2 Press **[OK]**. A blinking question mark (?) appears.

3 Select On or Off using △ or ▽.

4 Press **[OK]**.

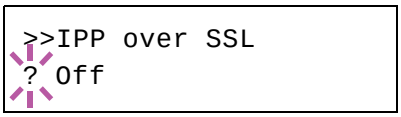
5 Press **[MENU]**. The display returns to Ready.

IPP over SSL (SSL Server IPP over SSL setting)

IPP over SSL is an encryption function that uses SSL for communications between users and servers in network printing. To use IPP over SSL, both server and client must support the protocol.

The default setting is Off.

1 Press ▷ while >SSL Server On > is displayed. >>IPP over SSL appears.



2 Press **[OK]**. A blinking question mark (?) appears.

3 Select On or Off using △ or ▽.

4 Press **[OK]**.

5 Press **[MENU]**. The display returns to Ready.

HTTPS (SSL Server HTTPS setting)

HTTPS (HyperText Transfer Protocol Secure) is a protocol that adds SSL data encryption, message authentication and a digital signature function to the HTTP protocol used for data transfer between WWW servers and clients.

S-HTTP is a similar protocol, but HTTPS differs in that it uses SSL.

The default setting is On.

1 Press ▷ while >SSL Server On > is displayed. >>HTTPS appears.

2 Press **[OK]**. A blinking question mark (?) appears.

3 Select On or Off using △ or ▽.

4 Press **[OK]**.

5 Press **[MENU]**. The display returns to Ready.

IPSec (IPSec setting)

IPSec (IP Security Protocol) is a security protocol adopted as the standard by the IETF for authentication and encryption in the third network layer (IP layer).

It can be used with both IPv4 and IPv6.

Note IPv4 uses 32-bit IP addresses and IPv6 uses 128-bit IP addresses.

The default setting is Off.

Note Check with your network administrator when selecting network settings.

1 After entering the administrator ID and password, press △ or ▽ repeatedly until >IPSec appears.

2 Press **[OK]**. A blinking question mark (?) appears.

3 Select On or Off using △ or ▽.

4 Press **[OK]**.

5 Press **[Menu]**. The display returns to Ready.

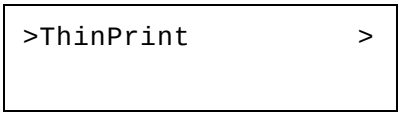
Security Level (Security Level setting)

`Security Level` is primarily a menu used by service personnel for maintenance work. There is no need for customers to use this menu.

Thin Print (Thin Print setting)

Select whether or not to use ThinPrint.

Note Thin Print is only supported in Europe (option).

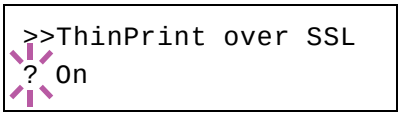


1. After entering the administrator ID and password, press △ or ▽ repeatedly until `>ThinPrint >` appears.
2. Press **[OK]**. A blinking question mark (?) appears.
3. Select `On` or `Off` using △ or ▽.
4. Press **[OK]**.
5. Press **[MENU]**. The display returns to `Ready`.

Thin Print over SSL (Thin Print over SSL setting)

Select whether or not to use ThinPrintOverSSL.

SSL must be set to [On] in *SSL Server (SSL Server setting) on page 4-66*.



1. Press ▷ while `>ThinPrint On >` is displayed. `>>ThinPrint over SSL` appears.
2. Press **[OK]**. A blinking question mark (?) appears.
3. Select `On` or `Off` using △ or ▽.
4. Press **[OK]**.
5. Press **[MENU]**. The display returns to `Ready`.

Job Accounting (Job Accounting selection/ setting)

Job Accounting is a function that allows the number of pages used to be managed by each department to be managed through the use of entered account IDs.

Job accounting on this machine offers the following features:

- Support for up to 100 departments
- Department codes up to 8 digits long from 1 to 99999999
- Collective print management for the same department code
- Totaling of the number of pages used for each department
- Specifiable limits (1 to 9,999,999) on the number of pages used
- Resetting of the number of pages used for individual departments

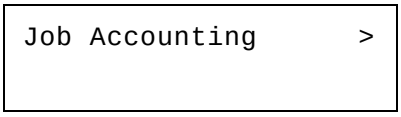
The options available in Job Accounting are as follows:

- ID (Administrator ID input)
- Password (Administrator Password input)
- Job Accounting (Job Accounting selection/setting)
- Select Account (Department-specific settings)
- Add Account (Department Registration)
- Delete Account (Department Removal)
- Print Job Accounting List (Job Accounting list output)

IMPORTANT `Select Account` and `Delete Account` are only displayed if one or more department codes have been registered. Also, `Add Account` is not displayed if the number of registered accounts has already reached the permitted maximum.

1 Press **[MENU]**.

2 Press △ or ▽ repeatedly until `Job Accounting >` appears.



ID (Administrator ID input)

To set up Job Accounting, you must enter an administrator ID. For information on how to set the administrator ID, refer to *Administrator (Administrator settings) on page 4-76*.

1 Press ▷ while `Job Accounting >` is displayed.

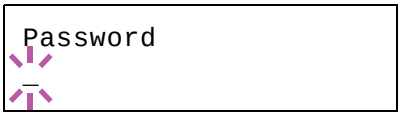
2 The message display shows `ID` and a blinking cursor (_).

3 Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified ID. Use ◁ and ▷ to move the cursor right and left. Enter an ID consisting of between 1 and 16 numbers.

4 Press **[OK]**. Proceed to the next step *Password (Administrator Password input)*.

Password (Administrator Password input)

To set up Job Accounting, you must enter an administrator ID and administrator password. For information on how to set the administrator password, refer to *Administrator (Administrator settings) on page 4-76*.



1 Once you have entered the correct ID in the previous step (ID (Administrator ID input)), the message display shows `Password` (Administrator password input) and a blinking cursor (_).

2 Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified password. Use ◁ and ▷ to move the cursor right and left. Enter a password consisting of between 0 and 16 numbers.

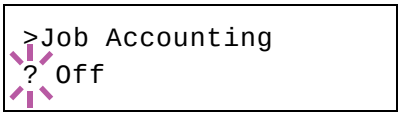
Note If you enter the incorrect administrator ID or password, the message `Wrong ID` or `Wrong Password` appears and the input screen then reappears. Re-enter the ID or password correctly.

3 Press **[OK]**. The Job Accounting selection/setting screen reappears.

Job Accounting (Job Accounting selection/setting)

This allows you to turn the Job Accounting function `On` and `Off`. The default setting is `Off`.

1 After entering the administrator ID and password, press △ or ▽ repeatedly until `>Job Accounting` appears.



2 Press **[OK]**. A blinking question mark (?) appears.

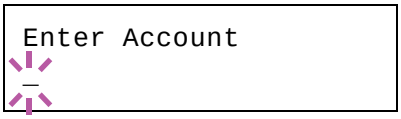
3 Select `On` or `Off` using △ or ▽.

4 Press **[OK]**.

5 Press **[MENU]**. The display returns to `Ready`.

Job Accounting Enabled

If department administration is enabled, an account ID entry screen appears each time you retrieve a status page or list.



1 A blinking cursor (_) appears in the account ID entry screen.

2 Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified account ID. Use ◁ and ▷ to move the cursor right and left. Enter an account ID consisting of between 1 and 8 numbers.

Note If you enter an incorrect account ID, the input screen reappears. Re-enter the account ID correctly.

3 Press **[OK]**. The account is confirmed and printing begins.

Select Account (Department-specific settings)

This specifies the functions used for managing individual account IDs.

The options available in Select Account are as follows:

- Counter (Account-specific counter management [color + Black & White total])
- Color Counter (Account-specific counter management [color])
- Restriction (Print restriction selection [color + Black & White total])
- Color Restrict (Print restriction selection [color])
- Maximum Output (Maximum print output setting [color + Black & White total])
- Color Max. Output (Maximum print output setting [color])
- Reset Counter (Counter reset)

1 Press ▷ while `Job Accounting` > is displayed.

2 Press △ or ▽ repeatedly until >`Select Account`> appears.

3 Press **[OK]**. A blinking question mark (?) appears.

```
>Select Account>
?00000000
```

4 Each time you press △ or ▽, the next registered account ID in the sequence appears.

5 Display the desired account ID and press **[OK]**. Press ▷, the display changes to the individual department setting screen.

Counter (Account-specific counter management [color + Black & White total])

Displays the total number of pages printed for the currently selected account.

IMPORTANT You can only view the counter. You cannot change it.

1 Set the account ID and then press △ or ▽ repeatedly until >>`Counter` appears. (E.g.: `100`)

The counter shows a number between `0000000` and `9999999`.

```
>>Counter
                0000100
```

2 Press **[MENU]**. The display returns to `Ready`.

Color Counter (Account-specific counter management [color])

Displays the total number of color pages printed for the currently selected account.

IMPORTANT You can only view the counter. You cannot change it.

1 Set the account ID and then press △ or ▽ repeatedly until >>`Color Counter` appears. (E.g.: `50`)

The counter shows a number between `0000000` and `9999999`.

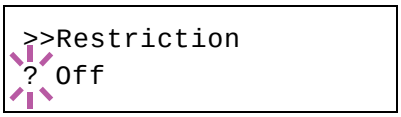
```
>>Color Counter
                0000050
```

2 Press **[MENU]**. The display returns to `Ready`.

Restriction (Print restriction selection [color + Black & White total])

Sets restricted functionality for all printing on the currently selected account. You can use the restrictions to prohibit printing by individual departments or to limit the number of pages they can print.

1. Set the account ID and then press △ or ▽ repeatedly until `>>Restriction` appears.
2. Press **[OK]**. A blinking question mark (?) appears.

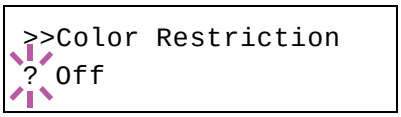


3. Press △ or ▽ repeatedly to select the desired restriction. The displayed restrictions are as follows:
   - `Off` (no restrictions)
   - `Counter Limit` (to limit the number of pages)
   - `Reject Usage` (to prohibit printing)
4. Press **[OK]**. The restriction is set.
5. Press **[MENU]**. The display returns to `Ready`.

Color Restrict (Print restriction selection [color])

Sets restricted functionality for color printing on the currently selected account. You can use the restrictions to prohibit printing by individual departments or to limit the number of pages they can print.

1. Set the account ID and then press △ or ▽ repeatedly until `>>Color Restriction` appears.
2. Press **[OK]**. A blinking question mark (?) appears.

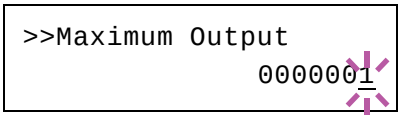


3. Press △ or ▽ repeatedly to select the desired restriction. The displayed restrictions are as follows:
   - `Off` (no restrictions)
   - `Counter Limit` (to limit the number of pages)
   - `Reject Usage` (to prohibit printing)
4. Press **[OK]**. The restriction is set.
5. Press **[MENU]**. The display returns to `Ready`.

Maximum Output (Maximum print output setting [color + Black & White total])

Limits the number of pages for all printing on the currently selected account.

1. Set the account ID and then press △ or ▽ repeatedly until `>>Maximum Output` appears.
2. Press **[OK]**. The message display shows a blinking cursor (_).



3 Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. Set the desired number of pages. You can set a number between 0000001 and 9999999 as the number of pages. Use ◁ and ▷ to move the cursor right and left.

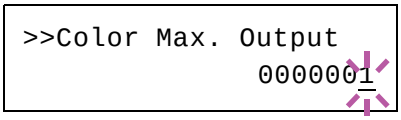
4 Press **[OK]**.

5 Press **[MENU]**. The display returns to Ready.

Color Max. Output (Maximum print output setting [color])

Limits the number of pages for color printing on the currently selected account.

1 Set the account ID and then press △ or ▽ repeatedly until >>Color Max. Output appears.



2 Press **[OK]**. The message display shows a blinking cursor (_).

3 Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. Set the desired number of pages. You can set a number between 0000001 and 9999999 as the number of pages. Use ◁ and ▷ to move the cursor right and left.

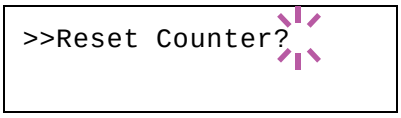
4 Press **[OK]**.

5 Press **[MENU]**. The display returns to Ready.

Reset Counter (Counter reset)

Resets the counter (pages used) for the currently selected account.

1 Set the account ID and then press △ or ▽ repeatedly until >>Reset Counter appears.



2 Press **[OK]**. A blinking question mark (?) appears.

3 Press **[OK]** again. The counter is reset.

4 Press **[MENU]**. The display returns to Ready.

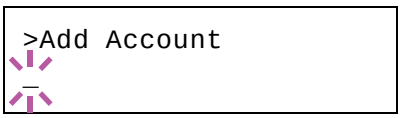
Add Account (Department registration)

This allows you to add a new account for which printing is permitted.

IMPORTANT Because account IDs are managed as numeric strings, "1" and "001" are handled as different accounts. Also, once Job Accounting is enabled, no jobs are printed unless information is attached showing the accounts from which the jobs are being printed.

1 Press ▷ while Job Accounting > is displayed.

2 Press △ or ▽ repeatedly until >Add Account appears.



3 Press **[OK]**. The message display shows a blinking cursor (_).

4 Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. Set the desired account ID. You can set a number between 1 and 8 digits. Use ◁ and ▷ to move the cursor right and left.

Note If you enter an existing account ID, `Wrong Account` is displayed and the input screen reappears. Re-enter the new account ID.

5 Press **[OK]**. Account registration ends.

6 Press **[MENU]**. The display returns to `Ready`.

Delete Account (Department removal)

You can use this to delete a registered account.

IMPORTANT Because account IDs are managed as numeric strings, "`1`" and "`001`" are handled as different accounts. Also, once Job Accounting is enabled, no jobs are printed unless information is attached showing the accounts from which the jobs are being printed.

1 Press ▷ while `Job Accounting >` is displayed.

2 Press △ or ▽ repeatedly until `>Delete Account` appears.

3 Press **[OK]**. A blinking question mark (?) appears.
(E.g.: `001`)

```
>Delete Account
?001
```

4 Each time you press △ or ▽, the next registered account ID in the sequence appears.

5 Display the desired account ID and press **[OK]**. The account ID is deleted.

6 Press **[MENU]**. The display returns to `Ready`.

Print Job Accounting List (Job Accounting list output)

This enables you to print the total number of pages for all accounts as a Job Accounting list.

1 Press ▷ while `Job Accounting >` is displayed.

2 Press △ or ▽ repeatedly until `>Print Job Accounting List` appears.

3 Press **[OK]**. A blinking question mark (?) appears.

```
>Print
Job Accounting List?
```

4 When you press **[OK]** again, `Processing` appears and printing begins.

5 Press **[MENU]**. The display returns to `Ready`.

Administrator (Administrator settings)

The Administrator setting is a function that identifies a user who can use the printer and manage other users.

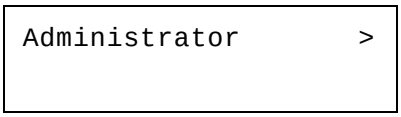
When using the Security and Job Accounting functions, the administrator ID and password set here are authenticated, and settings can be specified after they are properly authenticated.

The options available in Admin are as follows:

- ID (Administrator ID input)
- Password (Administrator Password input)
- Change ID (Administrator ID change)
- Change Password (Administrator Password change)

1 Press **[MENU]**.

2 Press △ or ▽ repeatedly until `Administrator >` appears.



ID (Administrator ID input)

You can use this to set the administrator ID.

Note The default setting is "2600" for the d-Color P2026. "2100" for the printer d-Color P2021.

1 Press ▷ while `Administrator >` is displayed.

2 The message display shows `ID` and a blinking cursor (_).

3 Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified ID. Use ◁ and ▷ to move the cursor right and left. Enter an ID consisting of between 1 and 16 numbers.

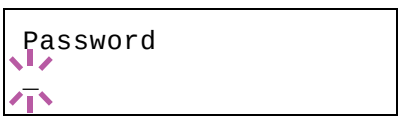
4 Press **[OK]**. Proceed to the next step *Password (Administrator Password input)*.

Password (Administrator Password input)

You can use this to set the administrator password.

Note The default setting is "2600" for the d-Color P2026 "2100" for the d-Color P2021.

1 Once you have entered the correct ID in the previous step (ID (Administrator ID input)), the message display shows `Password` (Administrator password input) and a blinking cursor (_).



2 Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified password. Use ◁ and ▷ to move

the cursor right and left. Enter a password consisting of between 0 and 16 numbers.

Note If you enter the incorrect administrator ID or password, the `Wrong ID` or `Wrong Password` message appears and the input screen then reappears. Re-enter the ID or password correctly.

```
>Change ID
00000001
```

3 Once you enter the correct ID and password, the *Admin (change)* screen appears. (E.g.: Where the administrator ID is `00000001`)

Each time you press △ or ▽, the following settings to be changed appear in succession.

- Change ID
- Change Password

Note If a change is required, refer to the procedures in *Change ID (Administrator ID change)* and *Change Password (Administrator Password change)* below.

4 Press **[OK]** again. The administrator ID and password are confirmed.

5 Press **[MENU]**. The display returns to `Ready`.

Change ID (Administrator ID change)

You can use this to change the administrator ID.

```
>Change ID
001
```

1 In step 3 in *Password (Administrator Password input)* above, press △ or ▽ while the *Admin (Change)* screen is displayed until `>Change ID` appears. (E.g.: Where the administrator ID is `001`)

```
>Change ID
_
```

2 When you press **[OK]**, a blinking cursor (_) appears.

3 Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. Enter the ID to be changed. Use ◁ and ▷ to move the cursor right and left. Enter an ID consisting of between 1 and 16 numbers.

```
OK?
002
```

4 Press **[OK]**. A confirmation screen appears. (E.g.: Where the administrator ID is changed to `002`)

5 Press **[OK]**. The new administrator ID is confirmed.

6 Press **[MENU]**. The display returns to `Ready`.

Change Password (Administrator Password change)

You can use this to change the administrator password.

```
>Change Password
■■■■■■■■■■■■■■■■
```

1 In step 3 in *Password (Administrator Password input)* above, press △ or ▽ while the *Admin (Change)* screen is displayed until `>Change Password` appears.

IMPORTANT The administrator password is not displayed.

```
>Change Password
_
```

2 Press **[OK]**. A blinking cursor (_) appears.

3 Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. Enter the password to be changed. Use ◁ and ▷ to move the cursor right and left. Enter a password consisting of between 0 and 16 numbers.

```
OK?
010
```

4 Press **[OK]**. A confirmation screen appears. (E.g.: Where the administrator password is changed to `010`)

5 Press **[OK]**. The new administrator password is confirmed.

6 Press **[MENU]**. The display returns to `Ready`.

Adjust/Maintenance (Adjust/Maintenance selection/setting)

Adjust/Maintenance is used to adjust the print quality and to carry out printer maintenance.

The options available in Adjust/Maintenance are as follows:

- Color Calibration
- Registration Normal (Color registration [standard])
- Registration Details (Color registration [detailed])
- Restart Printer
- Service (for maintenance)

IMPORTANT `Service` is primarily a menu used by service personnel for maintenance work. There is no need for customers to use this menu.

1 Press **[MENU]**.

2 Press △ or ▽ repeatedly until `Adjust/Maintenance >` appears.

```
Adjust/Maintenance  >
```

Color Calibration

This printer contains a calibration function that automatically makes adjustments to compensate for changes that occur over time due to variations in the ambient temperature and humidity. So that the highest quality color printing can be maintained, this color calibration operation is carried out automatically each time the power to the printer is turned on. The color calibration operation may be carried out automatically during recovery from the Auto Sleep or during printing.

1 Press ▷ while `Adjust/Maintenance >` is displayed.

2 Press △ or ▽ repeatedly until `>Color Calibration` appears.

3 Press **[OK]**. A question mark (?) appears.

```
>Color Calibration ?
```

4 Press **[OK]** again. The message display shows `Please wait (Calibrating)` and calibration will start.

5 When calibration is finished, the display returns to `Ready`.

Registration Normal (Color registration [standard])

When using the printer for the first time after set-up or after having moved it, or if printout of any color (magenta, cyan or yellow) is skewed, use this mode to correct the color registration on the operation panel.

The options available in Registration Normal (Color registration (standard)) are as follows:

- Print Registration Chart (Printing the color registration correction chart)
- Adjust Magenta
- Adjust Cyan
- Adjust Yellow

Print Registration Chart (Printing the color registration correction chart)

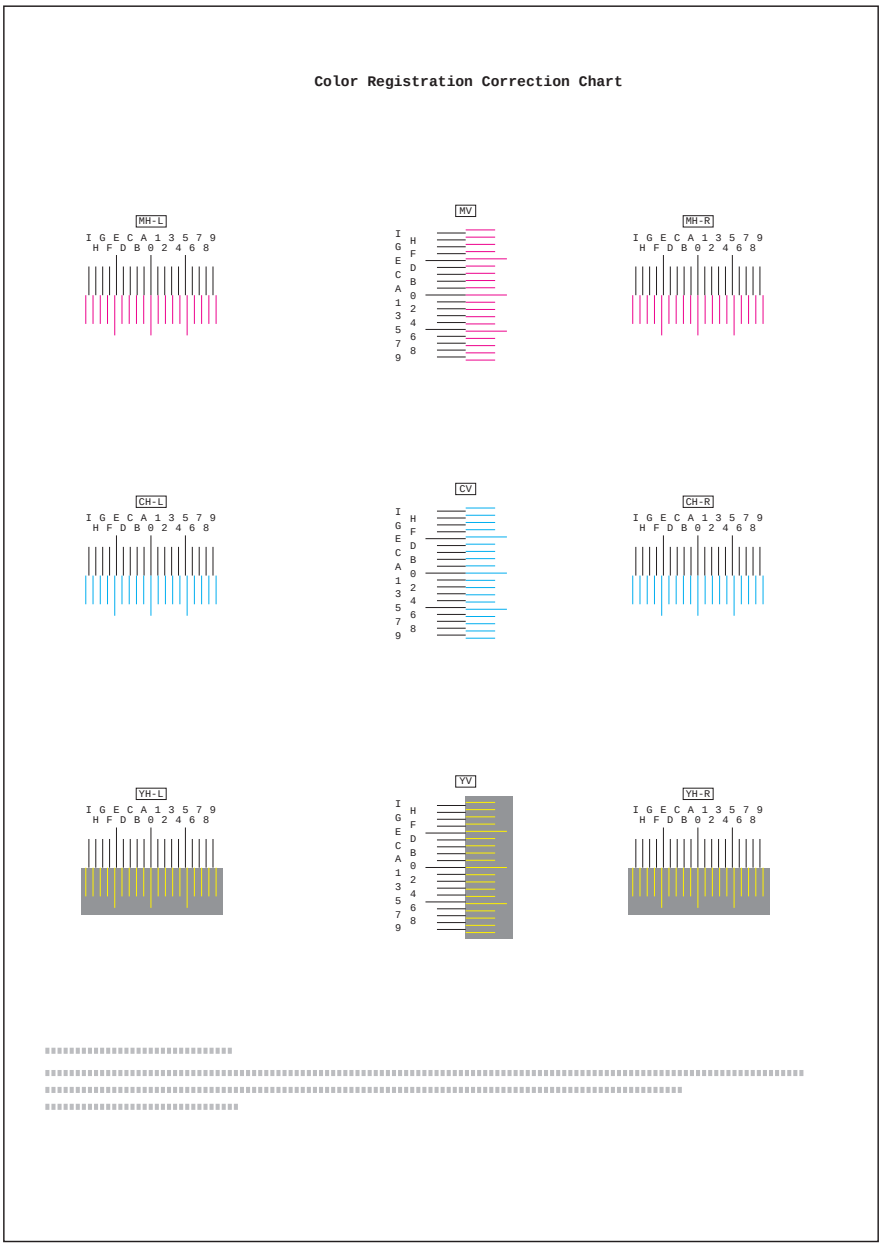
You can use this option to print a color registration correction chart for use in correcting the color registration.

1. Press ▷ while `Adjust/Maintenance >` is displayed.
2. Press △ or ▽ repeatedly until `>Registration Normal >` appears.
3. Press ▷.
4. Press △ or ▽ repeatedly until `>>Print Registration Chart` appears.
5. Press **[OK]**. A question mark (?) appears.

```
>>Print
 Registration Chart ?
```

6. Press **[OK]**. `Processing` appears and a color registration correction chart is printed out. There are left (L), vertical (V) and right (R) registration charts for each color (magenta, cyan and yellow) included on the color registration correction chart.

Sample Color Registration Correction Chart



7 When printing ends, the display returns to `Ready`.

Adjust Magenta

Corrects the registration for magenta (red).

1 Press ▷ while `Adjust/Maintenance >` is displayed.

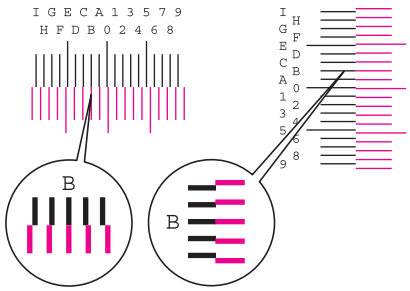
2 Press △ or ▽ repeatedly until `>Registration Normal >` appears.

3 Press ▷.

4 Press △ or ▽ repeatedly until `>>Adjust Magenta` appears.

5 Press **[OK]**. `0` will be displayed for each value and the cursor (_) will flash under the left (`L`) value.

```
>>Adjust Magenta
 L=0 V=0 R=0
```



6 Look at the left chart (L) in the magenta portion of the color registration correction chart. Find the two lines that most seem to overlap as a single straight line and note the number value listed there. In the left example, the value would be B.

```
>>Adjust Magenta
 L=B V=0 R=0
```

7 Press △ or ▽ until that value is displayed.

8 Use ◁ and ▷ to move the cursor right and left. Perform the same operation as you did for the left (L) value in order to find the vertical (V) and right (R) values for magenta in the color registration correction chart, and select those values on the operation panel as well.

9 Press **[OK]**. OK? and each of the entered values will be displayed. If the displayed values are correct, press **[OK]**.

Now continue to the settings for cyan and yellow.

Adjust Cyan (Cyan correction) and Adjust Yellow (Yellow correction)

These options correct the registration for cyan (blue) and yellow.

10 After completing the settings for magenta in step 9 above, press ▽. >>Adjust Cyan will be displayed and, once you complete the settings for that color, >>Adjust Yellow will be displayed. Perform the same operation as you did for the magenta chart in order to find the values for cyan and yellow in the color registration correction chart, and perform those settings in the same way.

11 Once you have completed the settings for all 3 colors, press **[MENU]**. The display returns to Ready.

This completes the standard color registration correction.

Note As confirmation, try printing the color registration correction chart again. If the section where the lines most closely coincide as a single straight line is not 0, redo the settings again from step 4 above.

IMPORTANT If the problem of skewed-color printout still persists even after correcting the color registration, call for service.

Registration Details (Color registration [detailed])

This allows you to make fine horizontal and vertical adjustments to the color registration corrections.

The options available in Registration Details (Color registration (detailed)) are as follows:

- Print Registration Chart (Printing the color registration correction chart)
- M 12345 3 (Adjust magenta)
- C 12345 3 (Adjust cyan)
- Y 12345 3 (Adjust yellow)

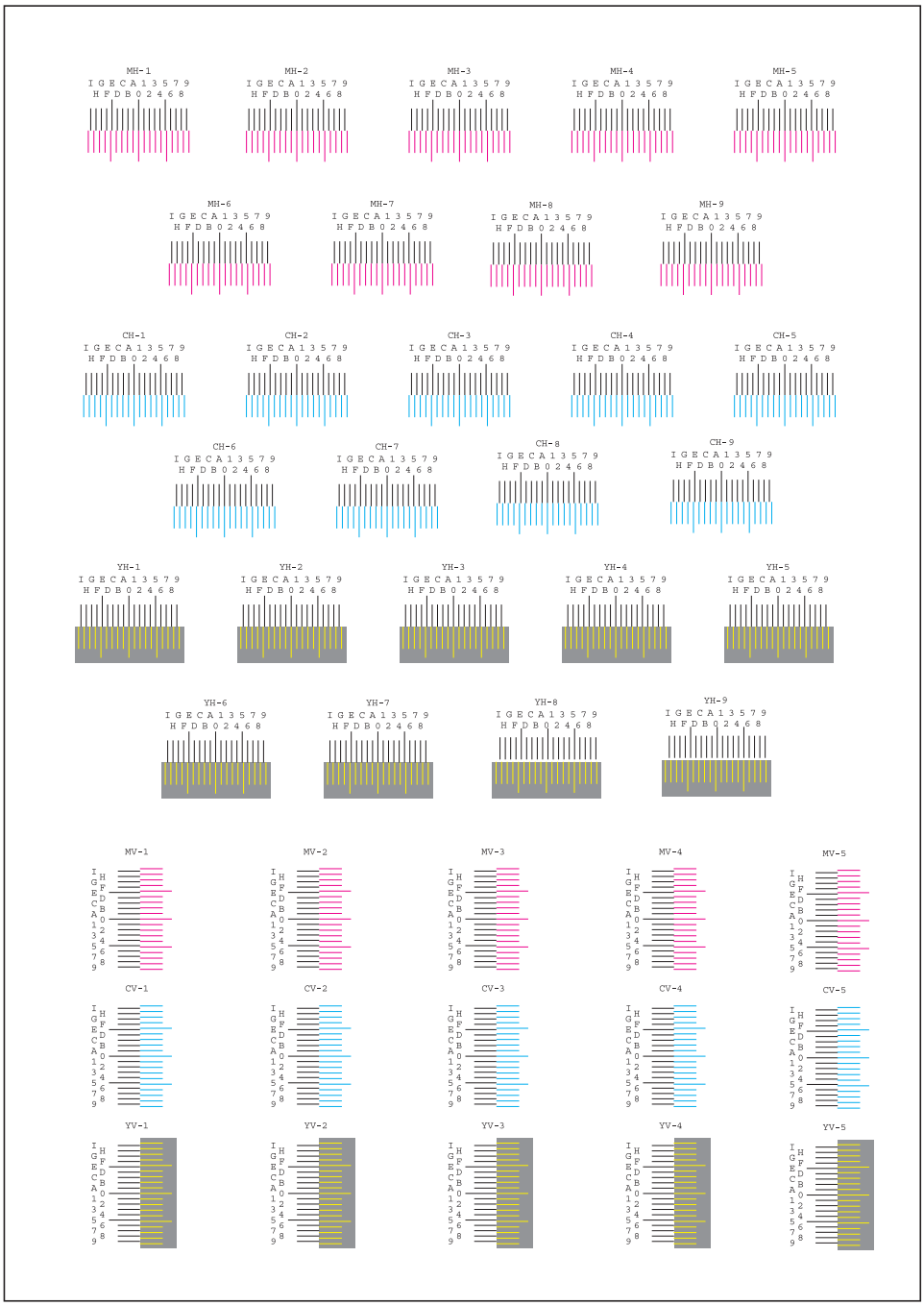
Print Registration Chart (Printing the color registration correction chart)

You can use this option to print a color registration correction chart for use in correcting the color registration.

1. Press ▷ while `Adjust/Maintenance >` is displayed.
2. Press △ or ▽ repeatedly until `>Registration Details >` appears.
3. Press ▷.
4. Press △ or ▽ repeatedly until `>>Print Registration Chart` appears.
5. Press **[OK]**. A question mark (?) appears.

```
>>Print
 Registration Chart ?
```

6 Press **[OK]**. `Processing` appears and a color registration correction chart is printed out. There are horizontal (H) and vertical (V) registration charts for each color (magenta, cyan and yellow) included on the color registration correction chart.



7 When printing ends, the display returns to `Ready`.

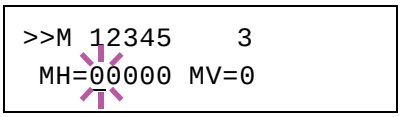
M 12345 3 (Adjust magenta)

Makes detailed corrections to the registration for magenta (red).

1 Press ▷ while `Adjust/Maintenance >` is displayed.

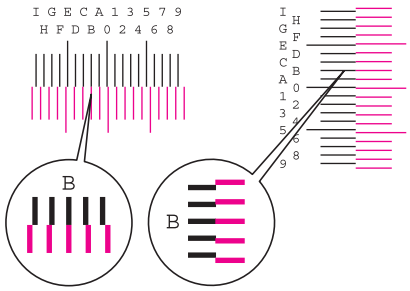
2 Press △ or ▽ repeatedly until `>Registration Details >` appears.

3 Press ▷.

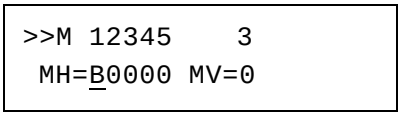


4 Press △ or ▽ repeatedly until >>M 12345 3 appears.

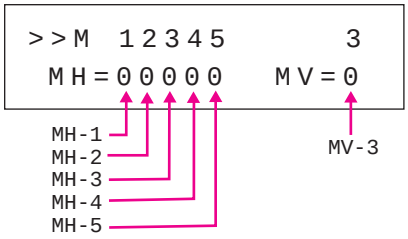
5 Press **[OK]**. 00000 or 0 will be displayed for each value and the cursor (_) will flash under the H value.



6 In the color registration correction chart printed in Print Registration Chart above, note the numbers of the sections in the magenta H and V charts where the lines most closely coincide as a single straight line. In the left example, the value would be B.



7 Press △ or ▽ until that value is displayed.



8 Use ◁ and ▷ to move the cursor right and left. Perform the same operation as you did for the H value in order to find the V values in the color registration correction chart, and select those values on the operation panel as well.

9 Press **[OK]**. OK? and each of the entered values will be displayed. If the numbers shown are correct, press **[OK]**. This completes the settings for magenta.

Now continue to the settings for cyan and yellow.

C 12345 3 (Adjust Cyan) and Y 12345 3 (Adjust Yellow)

These options make detailed corrections to the registration for cyan (blue) and yellow.

10 After completing the settings for magenta in step 9 above, press the ▽ key. >>C 12345 3 and >>Y 12345 3 are displayed. As with magenta, note down the values for cyan and yellow from the color registration correction chart.

11 After completing the settings for all three colors, press **[MENU]**. The display returns to Ready.

This completes the detailed color registration correction.

Note As confirmation, try printing the color registration correction chart again. If the section where the lines most closely coincide as a single straight line is not 0, redo the settings again from step 4 above.

IMPORTANT If the problem of skewed-color printout still persists even after correcting the color registration, call for service.

Restart Printer

The procedure described below resets the printer's temporary conditions, such as the current page orientation, font, etc., set by commands to their default values. Downloaded fonts and macros are deleted from the printer's memory.

1 Press ▷ while `Adjust/Maintenance >` is displayed.

2 Press △ or ▽ repeatedly until `>Restart Printer` appears.

3 Press **[OK]**. A question mark (?) appears.

```
>Restart Printer ?
```

4 Press **[OK]** again. `Self test` appears while the printer is resetting itself, followed by `Please wait` and then `Ready`.

Service (for maintenance)

The options available in Service are as follows:

- Print Status Page (Printing the service status page)
- Print Network Status Page (Printing the network status page)
- Print Test Page
- Maintenance (New Maintenance Kit replacement confirmation setting)
- DEV-CLN (Developer/Refresh mode setting)
- LSU (LSU cleaning mode setting)
- Drum (Drum/Refresh mode setting)

IMPORTANT `Service` is primarily a menu used by service personnel for maintenance work. There is no need for customers to use this menu.

1 Press ▷ while `Adjust/Maintenance >` is displayed.

2 Press △ or ▽ repeatedly until `>Service >` appears.

```
>Service              >
```

Print Status Page (Printing the service status page)

The service status page contains printer settings information that is more detailed than the standard status page and is therefore mostly for service purposes. However, there is a great deal of information on the service status page that may be useful to you.

1 Press ▷ while `>Service >` is displayed.

2 Press △ or ▽ repeatedly until `>>Print Status Page` appears.

3 Press **[OK]**. A question mark (?) appears.

```
>>Print Status Page ?
```

4 Press **[OK]** again. `Processing` appears and a service status page is printed out.

5 When printing ends, the display returns to `Ready`.

Print Network Status Page (Printing the network status page)

The network status page contains detailed information on the network settings. This is primarily used for maintenance by service personnel, but it contains information that may also be useful to you.

1. Press ▷ while >Service > is displayed.
2. Press △ or ▽ repeatedly until >>Print Network Status Page appears.
3. Press **[OK]**. A question mark (?) appears.

```
>>Print
 Network Status Page?
```

4. Press **[OK]** again. Processing appears and a network status page is printed out.
5. When printing ends, the display returns to Ready.

Print Test Page

The test page is printed to check the effectiveness of printer adjustments. This is primarily used for maintenance by service personnel, but it contains information that may also be useful to you.

1. Press ▷ while >Service > is displayed.
2. Press △ or ▽ repeatedly until >>Print Test Page appears.
3. Press **[OK]**. A question mark (?) appears.

```
>>Print Test Page ?
```

4. Press **[OK]** again. Processing appears and a test page is printed out.
5. When printing ends, the display returns to Ready.

Maintenance (New Maintenance Kit replacement confirmation setting)

This specifies the setting for confirmation of replacement with the new Maintenance Kit (resets the total number of Maintenance Kit print images). This is primarily used for maintenance by service personnel. (d-Color P2026 only)

Note The Maintenance menu is displayed only when Replace MK appears.

1. Press ▷ while >Service > is displayed.
2. Press △ or ▽ repeatedly until >>Maintenance appears.
3. Press **[OK]**. A question mark (?) appears.

```
>>Maintenance ?
```

4. Press **[OK]** again. The confirmation of replacement with the new Maintenance Kit is set.
5. When the replacement ends, the display returns to Ready.

DEV-CLN (Developer/Refresh mode setting)

This sets the refresh mode for the developer. When the printing quality declines, refreshing the developer can restore the printing quality. This is primarily used for maintenance by service personnel.

1. Press ▷ while >Service > is displayed.
2. Press △ or ▽ repeatedly until >>DEV-CLN appears.
3. Press **[OK]**. A question mark (?) appears.

```
>>DEV-CLN ?
```

4. Press **[OK]** again. Developer refreshing begins and Please wait is displayed.
5. When refreshing ends, the display returns to Ready.

LSU (LSU cleaning mode setting)

This sets the cleaning mode for the LSU. When the printing quality declines, cleaning the LSU can restore the printing quality. This is primarily used for maintenance by service personnel.

1. Press ▷ while >Service > is displayed.
2. Press △ or ▽ repeatedly until >>LSU appears.
3. Press **[OK]**. A question mark (?) appears.

```
>>LSU ?
```

4. Press **[OK]** again. LSU cleaning mode begins and Please wait (Cleaning) is displayed.
5. When cleaning ends, the display returns to Ready.

Drum (Drum/Refresh mode setting)

This sets the refresh mode for the drum. When the printing quality declines, refreshing the drum can restore the printing quality. This is primarily used for maintenance by service personnel.

1. Press ▷ while >Service > is displayed.
2. Press △ or ▽ repeatedly until >>Drum appears.
3. Press **[OK]**. A question mark (?) appears.

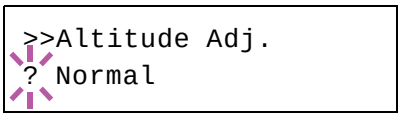
```
>>Drum ?
```

4. Press **[OK]** again. Drum refreshing begins and Please wait is displayed.
5. When refreshing ends, the display returns to Ready.

Altitude Adj. (Altitude adjustment setting)

This sets the altitude adjustment mode. If you are using the machine at an altitude of 1500 m or higher and print quality has deteriorated, the Altitude Adjustment mode setting can be used to restore print quality.

1. Press ▷ while >Service > is displayed.
2. Press △ or ▽ repeatedly until >>Altitude Adj. appears.



3 Press **[OK]**. A blinking question mark (?) appears.

4 Press △ or ▽ to select `Normal`, `High 1` or `High 2`.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to `Ready`.

MC (Main charger output setting)

This sets the output of the main charger. When print quality has deteriorated, the output of the main charger can be changed to restore print quality.

Note This menu only appears when the *Altitude Adj. (Altitude adjustment setting) on page 4-88* is set to `Normal`.

1 Press ▷ while `>Service >` is displayed.

2 Press △ or ▽ repeatedly until `>>MC` appears.

3 Press **[OK]**. A blinking question mark (?) appears.

4 Press △ or ▽ to select `1` to `5`.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to `Ready`.

Optional Functions

You can use the optional applications installed on this machine.

Op Functions

See *Optional Functions on page A-10*.

5 Maintenance

This chapter contains explanations on the following topics:

General Information **5-2**
Toner Container Replacement **5-2**
Replacing the Waste Toner Box **5-6**
Cleaning the Printer **5-8**

General Information

This chapter describes basic maintenance tasks you can perform on the printer. You can replace the following component according to the printer's display:

- Toner Kits
- Waste Toner Box

Also, the following parts need periodic cleaning:

- Paper Transfer Unit

Note Information Collection on Memory Chips - The memory chip attached to the toner container is designed to improve convenience for the end user; to support the recycling operation of empty toner containers; and to gather information to support new product planning and development. The information gathered is anonymous - it cannot be associated to any specific individual and the data is intended to be used anonymously.

Toner Container Replacement

The toner container in the printer should be replaced as soon as the message display shows `Toner low` or soon after. If you continue to use the printer, eventually the toner supply will be exhausted at which point the printer will stop printing and the `Replace toner C,M,Y,K` message will be shown instructing you to install a new toner kit.

Frequency of Toner Container Replacement

The life of the toner containers depends on the amount of toner required to accomplish your printing jobs. According to ISO/IEC 19798 and EcoPrint switched off the toner container can print as follows (A4/Letter paper is assumed):

d-Color P2021

Toner Color	Life of the Toner Container (Printable pages)
Black	3,500 images
Cyan	2,800 images
Magenta	2,800 images
Yellow	2,800 images

d-Color P2026

Toner Color	Life of the Toner Container (Printable pages)
Black	7,000 images
Cyan	5,000 images
Magenta	5,000 images
Yellow	5,000 images

Note The toner container packed with the new printer has to fill up the system when operating the first time. Therefore only 30 ~ 50% of the first toner kits can be used for printing.

Toner Kits

For best results, we recommend that you only use genuine Parts and Supplies.

The toner kits are supplied in 4 different colors: cyan, magenta, yellow and black.

A new toner kit for each color contains the following items:

- Toner Container
- Plastic waste bags for old toner container and old waste toner box
- Waste Toner Box
- Installation Guide

Note Do not remove the toner container from the carton until you are ready to install it in the printer.

Understanding Messages Requesting Toner Container Replacement

The printer displays messages for individual colors at two stages of toner usage. This message is automatically alternated with the other printer message (such as `Ready`):

- When the printer becomes low on toner, for example in the cyan container, the printer displays the message `Toner low C` as the first caution. Note the replacement is not always necessary at this stage.
- If you ignore the above message and continue printing, the printer displays the message `Replace toner` — just before the toner is used up. The toner container must be replaced immediately. Clean the separate charger wires, etc. After the cleaning is finished, however, the message does not automatically change to `Ready`. To restart printing, you must press **[GO]** and make the printer ready.

In either case, replace the toner container, refer to *Toner Container Replacement on page 5-2*.

Replacing the Toner Container

This section explains how to replace the toner containers. When replacing the toner container of any color, always replace the waste toner box at the same time. If this box is full, the printer may be damaged or contaminated by the waste toner that may spill over the box.

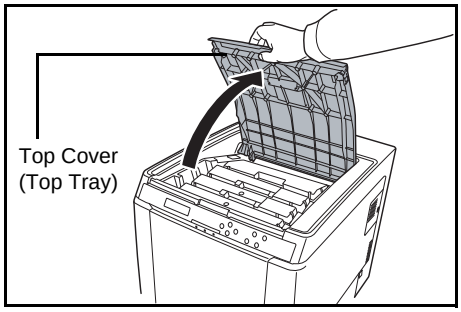
CAUTION Do not attempt to incinerate the Toner Container. Dangerous sparks may cause burns.

IMPORTANT During toner container replacement, temporarily move storage media and computer supplies (such as floppy disks) away from the toner container. This is to avoid damaging media by the magnetism of toner.

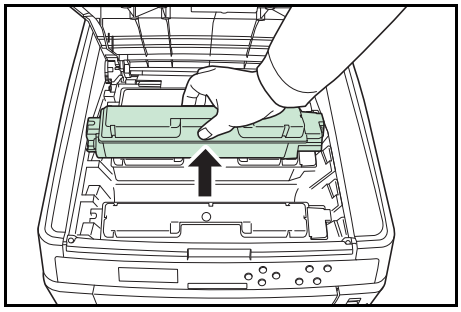
IMPORTANT We recommend the use of our own brand supplies. We will not be liable for any damage caused by the use of third party supplies in this machine.

Note You do not have to turn printer power off before starting the replacement. Any data that may be processing in the printer will be deleted if you turn the printer power off.

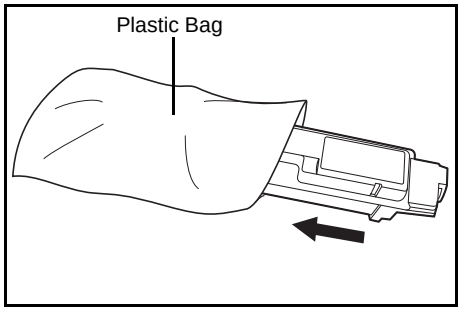
To replace the toner container, first make sure of the color of the toner container requiring replacement. In this example, it is assumed that you are replacing the cyan toner container.



1 Open the top cover (top tray).

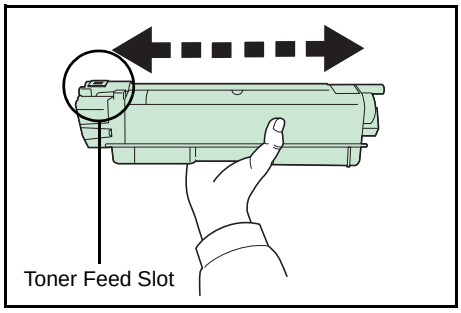


2 Carefully remove the old toner container from the printer.

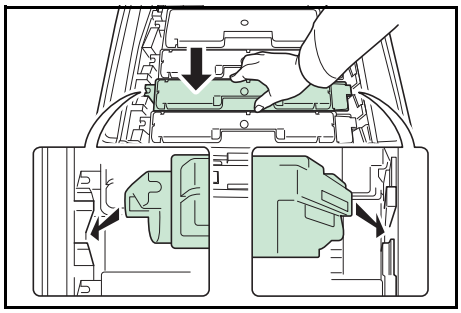


3 Put the old toner container in the plastic bag (contained in the toner kit) and discard it later according to the local code or regulations for waste disposal.

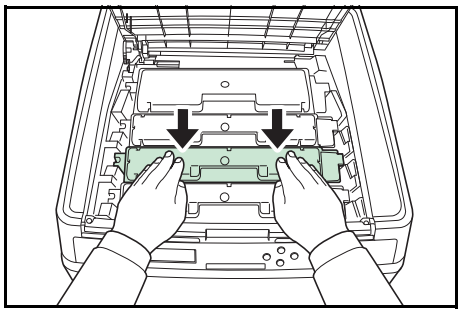
4 Take the new toner container out of the toner kit.



5 Shake the new toner container 5 or 6 times as shown in the figure in order to distribute the toner evenly inside the container.
Do not press too firmly on the center of the toner container or touch the toner feed slot.



6 Holding the new toner container with the toner feed slot facing down, align with the left and right slots and insert horizontally into the printer.



7 Push down on the top of the toner container to install it firmly in place.

Use the same procedure to replace the other color toner containers.

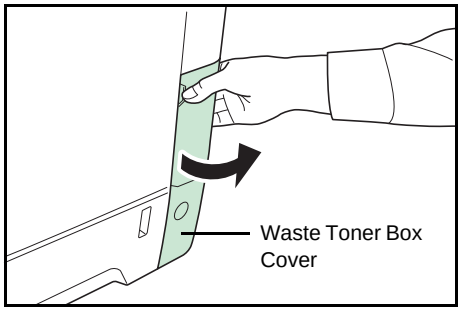
8 Close the top cover (top tray).

Note If the top cover (top tray) does not close, check that the new toner container is installed correctly (in step 7).
After use, always dispose of the toner container and the waste toner box in accordance with Federal, State and Local rules and regulations.

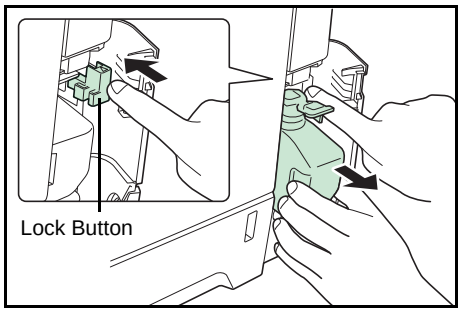
Proceed to the next section.

Replacing the Waste Toner Box

Replace the waste toner box when the `Check waste toner box` message is displayed. A new waste toner box is included with the toner kit. The waste toner box needs to be replaced before the printer will operate.

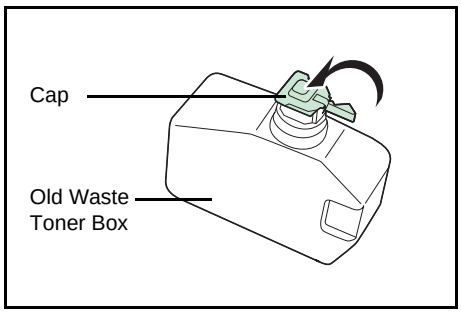


1 Open the waste toner box cover.

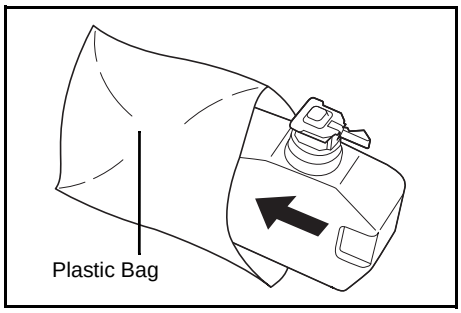


2 Press the lock button and gently remove the waste toner box.

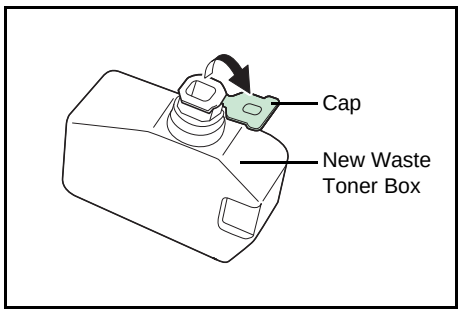
Note Remove the waste toner box as gently as possible so as not to scatter the toner inside. Do not let the opening of the waste toner box face downward.



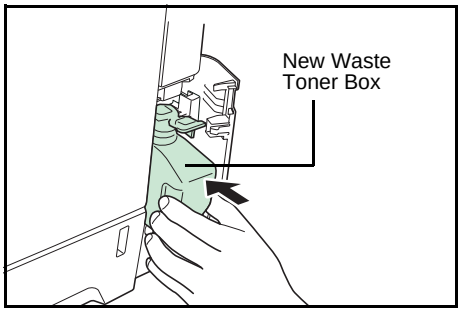
3 Close the cap to the old waste toner box after removing the box from the printer.



4 To prevent toner from spilling, put the old waste toner box in the plastic bag (contained in the toner kit) and discard it later according to the local code or regulations for waste disposal.



5 Open the cap of the new waste toner box.



6 Insert the new waste toner box as shown in the figure. When the box is set correctly, it will snap into place.

7 Make sure that the waste toner box is correctly inserted and close the waste toner box cover.

After replacing the toner containers and the waste toner box, clean the paper transfer unit. For instructions, refer to *Cleaning the Printer on page 5-8*.

Cleaning the Printer

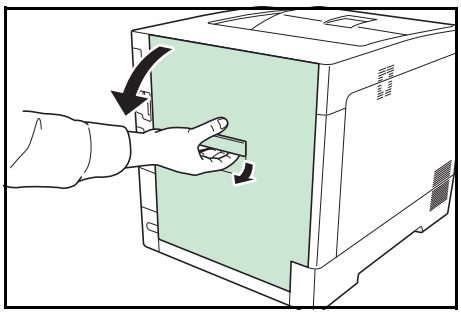
The paper transfer unit should be cleaned each time the toner container and waste toner box are replaced.

To maintain optimum print quality, it is also recommended that the inside of the printer be cleaned once a month as well as when the toner container is replaced.

It should also be cleaned if streaking or lines appear on printed copies, or if printouts appear faint or blurred.

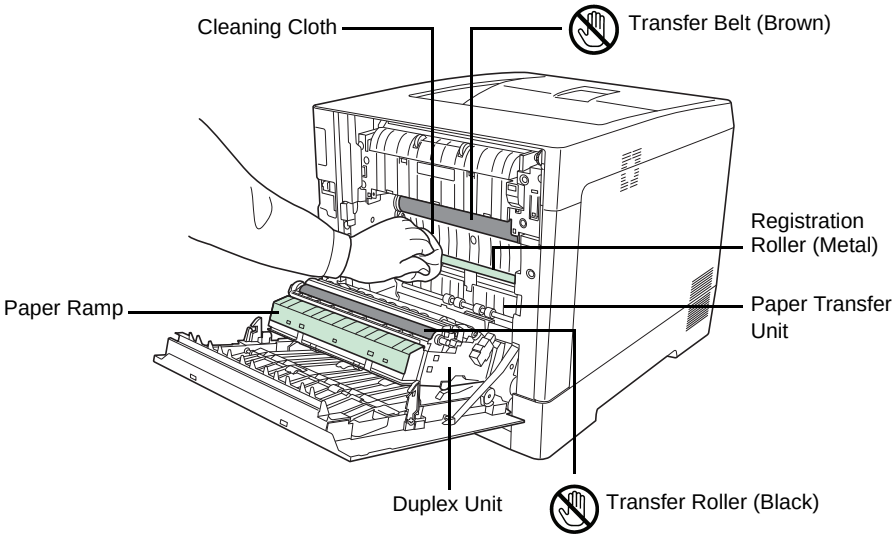
Cleaning the Paper Transfer Unit

Print problems such as soiling of the reverse side of printed pages may occur if the paper transfer unit becomes dirty. To clean the paper transfer unit, you must use the dry cloth.



1 Pull up the rear cover lever and open the rear cover.

2 Wipe away the paper dust on the registration roller and the paper ramp using the cleaning cloth.



Note Be careful not to touch the black transfer roller and brown transfer belt during cleaning as this may adversely affect print quality.

3 Close the rear cover.

6 Troubleshooting

This chapter contains explanations on the following topics:

General Guidelines **6-2**
Print Quality Problems **6-3**
Error Messages **6-6**
Clearing Paper Jams **6-11**

If a problem cannot be corrected, contact your service technician.

General Guidelines

The table below provides basic solutions for problems you may encounter with the printer. We suggest you consult this table to troubleshoot the problems before calling for service.

Symptom	Check Items	Corrective Action
Print quality is not good.	Refer to *Print Quality Problems on page 6-3*.	
Paper is jammed.	Refer to *Clearing Paper Jams on page 6-11*.	
Nothing lights on the operation panel even when power is turned on and the fan makes no noise.	Check that the power cord is properly plugged into the power outlet.	Turn off the printer's power, plug in the power cord securely, and try turning on the printer's power again.
		Push the power switch securely.
The printer prints a status page, but does not print jobs from the computer.	Check the printer cable or the interface cable.	Connect both ends of the printer cable securely. Try replacing the printer cable or the interface cable.
	Check program files and application software.	Try printing another file or using another print command. If the problem occurs only with a specific file or application, check the printing system driver settings for that application.
The printer is emitting steam in the area around the top tray.	Check the room temperature to see if it is low, or if damp paper was used.	Depending on the printing environment and the paper's condition, the heat generated during printing will cause the moisture in the paper to evaporate, and the steam emitted may look like smoke. This is not a problem, and you can continue printing. If the steam concerns you, raise the room temperature, or replace the paper with a newer, dryer paper.

Tips

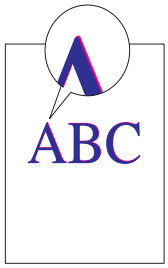
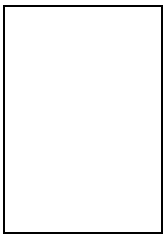
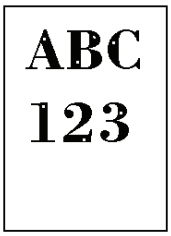
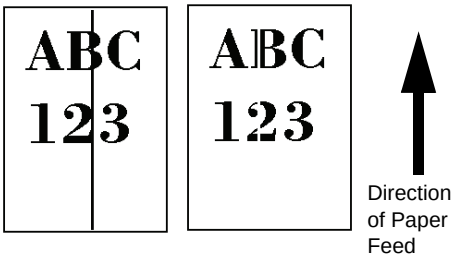
Printer problems may be solved easily by following the tips below. When you have encountered a problem that following the above guidelines will not solve, try the following:

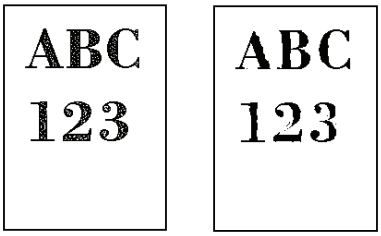
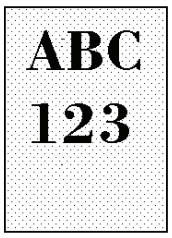
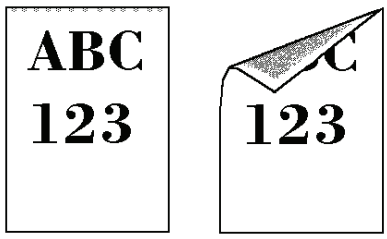
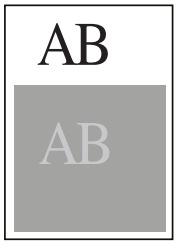
- Turn the printer power off and wait for several seconds. Then, turn on the printer.
- Reboot the computer which sends the print jobs to the printer.
- Make sure that the procedures for printing are correctly followed in the application software. Consult the documentation supplied with the application software.

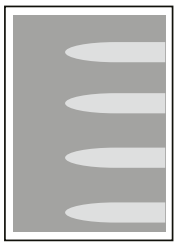
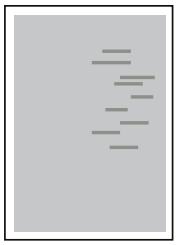
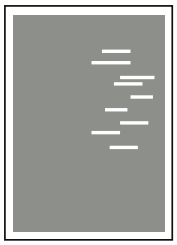
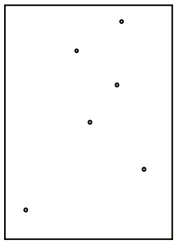
Print Quality Problems

The tables and diagrams in the following sections define print quality problems and the corrective action you can conduct to solve the problems. Some solutions may require cleaning or replacing parts of the printer.

If the suggested corrective action will not solve the problem, call for service.

Printed Results	Corrective Action
Skewed-color printout 	Conduct color registration using the printer operation panel. For details, refer to *Registration Normal (Color registration [standard]) on page 4-79* or *Registration Details (Color registration [detailed]) on page 4-82*.
Completely blank printout 	Check the toner containers. Open the printer top cover (top tray) and check that the toner containers are correctly installed in the printer. For more information on installing the toner containers, refer to *Toner Container Replacement on page 5-2*.
	Check that the application software is correctly operated.
Dropouts or stray dots 	Clean the LSU. For details, refer to *LSU (LSU cleaning mode setting) on page 4-88*.
Black or white vertical streaks 	Check the operation panel for toner. If the `Toner low C,M,Y,K` message is displayed with color description, install a new toner kit for the color. To replace the toner container, refer to *Toner Container Replacement on page 5-2.*
	Clean the LSU. For details, refer to *LSU (LSU cleaning mode setting) on page 4-88*.
	Refresh drum. For details, refer to *Drum (Drum/Refresh mode setting) on page 4-88*

Printed Results	Corrective Action
Faint or blurred printing 	Clean the LSU. For details, refer to *LSU (LSU cleaning mode setting) on page 4-88*.
	Make sure the paper type setting is correct the paper being used. For details, refer to *Paper Settings on page 4-29*.
	Conduct color calibration either by switching the printer off then on or using the printer operation panel. For details, refer to *Color Calibration on page 4-79*.
	Try adjusting the color control settings using the printing system driver.
	Check the operation panel. If the `Toner low C,M,Y,K` message is displayed with color description, install a new toner kit for the color. To replace toner, refer to *Toner Container Replacement on page 5-2.*
	Refresh drum. For details, refer to *Drum (Drum/Refresh mode setting) on page 4-88*.
	Run [MC] and decrease the adjustment value. Decrease the adjustment value 1 level at a time from the current value. If there is no improvement after the value is decreased by 1 level, decrease by 1 level again. If there is still no improvement, return the setting to the original value. For details, refer to *MC (Main charger output setting) on page 4-89*.
Grey background 	Conduct color calibration either by switching the printer off then on or using the printer operation panel. For details, refer to *Color Calibration on page 4-79*.
Dirt on the top edge or back of the paper 	Check the paper chute and the ramp. Open the rear cover and check for toner on the paper ramp inside the paper transfer unit. Clean the paper ramp using a soft, dry, lint-free cloth. For details, refer to *Cleaning the Paper Transfer Unit on page 5-8*.
Offset occures. 	Refresh drum. For details, refer to *Drum (Drum/Refresh mode setting) on page 4-88*.
	Run [MC] and decrease the adjustment value. Decrease the adjustment value 1 level at a time from the current value. If there is no improvement after the value is decreased by 1 level, decrease by 1 level again. If there is still no improvement, return the setting to the original value. For details, refer to *MC (Main charger output setting) on page 4-89*.

Printed Results	Corrective Action
Part of the image is periodically faint or blurred. 	Run [MC] and decrease the adjustment value. Decrease the adjustment value 1 level at a time from the current value. If there is no improvement after the value is decreased by 1 level, decrease by 1 level again. If there is still no improvement, return the setting to the original value. For details, refer to *MC (Main charger output setting) on page 4-89*.
Irregular horizontal lines appear in the image. 	Run [MC] and decrease the adjustment value. Decrease the adjustment value 1 level at a time from the current value. If there is no improvement after the value is decreased by 1 level, decrease by 1 level again. If there is still no improvement, return the setting to the original value. For details, refer to *MC (Main charger output setting) on page 4-89*.
The altitude is 1500 m or higher and irregular horizontal white lines appear in the image. 	Run [Altitude Adj.] and set the adjustment value to `High 1`. If there is no improvement when the value is set to `High 1`, set to `High 2`. For details, refer to *Altitude Adj. (Altitude adjustment setting) on page 4-88*.
The altitude is 1500 m or higher and dots appear in the image. 	Run [Altitude Adj.] and set the adjustment value to `High 1`. If there is no improvement when the value is set to `High 1`, set to `High 2`. For details, refer to *Altitude Adj. (Altitude adjustment setting) on page 4-88*.

Error Messages

The following table lists errors and maintenance messages that you can be dealt with by yourself. If `Call service` appears, turn off the printer, disconnect the power cord, and contact your service technician.

If `Call service` or `Error.Power off.` is displayed, turn off the printer then turn it back on to see if the printer has recovered. If the printer has not recovered, turn off the printer, disconnect the power cord, and contact your service representative or authorized service center.

Some errors cause the alarm to sound. To stop the alarm, press **[Cancel]**.

Message	Corrective Action
`Account error ##` `Press GO`	This message is displayed when the Job Accounting function is enabled and an attempt to specify job accounting settings or to register or delete an account fails. To return the printer to the print-ready status, press **[GO]**.
`Add paper MP Tray`	The paper has run out in the paper source displayed. Supply paper according to the paper source displayed (paper cassettes, MP tray, or optional paper feeders). The paper cassette number only appears when optional paper feeders are installed. This message is displayed alternately with messages indicating the printer status, such as, `Ready`, `Please wait`, and `Processing`.
`Call service` `F###`	F### represents a controller error (#=`0`, `1`, `2`, ...). Call for service. The printer does not operate when this message is displayed.
`Call service` `####:0123456`	#### represents a mechanical error (#=`0`, `1`, `2`, ...). Call for service. The printer does not operate when this message is displayed. The total number of pages printed is also indicated, e.g. `0123456`.
`Canceling data`	Displayed when data is being canceled.
`Cassette # not loaded`	The corresponding paper cassette is not installed. Install the cassette. The paper cassette number only appears when optional paper feeders are installed.
`Check cassette #`	This message is displayed when a paper lift error has occurred in the paper source's cassette. Pull out the cassette for the paper source displayed (either the paper cassettes or optional paper feeders) and check if the paper is loaded correctly. The paper cassette number only appears when optional paper feeders are installed. The message `Call service` is displayed when this error occurs repeatedly.
`Check waste toner box`	This message warns following two cases. Install the new waste toner box. The waste toner box is not installed. The waste toner box is full.
`Close rear cover #`	The rear cover of the printer or optional paper feeder is open. Close the rear cover whose number appears.
`Close top cover`	The top cover of the printer is open. Close the printer top cover.
`Close the waste toner cover`	The waste toner box cover is open. Close the waste toner box cover.
`Device busy`	This message is displayed when `Remove Device` was selected while a USB memory was being used. The previous screen is displayed again 1 or 2 seconds.

Message	Corrective Action
Duplex disabled Press GO	You attempted to print with a paper size and paper type that cannot be used for duplex printing. Press **[GO]** to print onto one-side of the paper only.
Enter Account	An account code must be entered. This message is displayed if you try to print from the operation panel (e.g. printing a status page or using the Job Retention function) when the Job Accounting function is enabled. For more information, refer to *Job Accounting (Job Accounting selection/setting) on page 4-70*.
Error.Power off. F###	Turn the power switch off and then back on again. If this message still remains, turn the power switch off, and contact your service representative or authorized service center.
Error.Power off. F000	The printer controller and operation panel cannot exchange data. Turn the power switch off and then back on again. If this message still remains, turn the printer off and unplug it from the mains power supply. Then contact your service representative or authorized service center. See the back page of this manual for the relevant phone numbers.
Exceeded Max.out Press GO	This message is displayed when the Job Accounting function is enabled and an attempt has been made to exceed the print limit set for each account. To return the printer to the print-ready status, press **[GO]**. For more information, refer to *Job Accounting (Job Accounting selection/setting) on page 4-70*.
Format error Hard disk	The hard disk installed in the printer is not formatted, and therefore cannot be read or written.
Hard disk error ## Press GO	A hard disk error has occurred. Look at the error code given in place of ## and refer to *Storage Error Codes on page 6-10*. To ignore the hard disk error, press **[GO]**.
ID error	The user ID entered for a private job is not correct. Check the user ID that you specified on the printing system driver. For more information, refer to *Job Box on page 4-22*.
Illegal Account Press GO	This message is displayed when the Job Accounting function is enabled and no account is set for a transmitted print job or the specified account is not registered (the incorrect account is set). To return the printer to the print-ready status, press **[GO]**. For more information, refer to *Job Accounting (Job Accounting selection/setting) on page 4-70*.
Replace MK	Replace Maintenance Kit which is displayed on the message display. Replacement of the maintenance kit is necessary at every 200,000 images of printing and requires professional servicing. Contact your service technician.
Job not stored Press GO	Printing using the Job Box function failed because there was insufficient space available on the hard disk or RAM disk, or because the RAM disk was disabled when demounting the hard disk. To print an error report and return the printer to the print-ready status, press **[GO]**.
Job restricted Press GO	This message is displayed when printing was attempted, despite the Job Account function being on with Restriction applied as the job limit for each job account. To return the printer to the print-ready status, press **[GO]**. For more information, refer to *Job Accounting (Job Accounting selection/setting) on page 4-70*.
KPDL error ## Press GO	Current print processing cannot continue because of occurrence of KPDL error which is categorized by ##. To print out an error report, display >>Error Report from the menu system, and select On. Press **[GO]** to resume printing. You can abandon printing by pressing **[Cancel]**. If Auto Error Clear is set to On, printing will be automatically resumed after a preset period of time. For more information, refer to *Auto Error Clear (Auto error clear setting) on page 4-60*.

Message	Corrective Action
Load Cassette # (A4)/(PLAIN)	The paper cassette matching the paper size and paper type of the print job is empty. Load paper into the paper cassette as displayed in place of #. Press **[GO]** to resume printing. If you want to print from a different paper source, press △ or ▽ to display Use alternative? and you can change the source for paper feeding. After selecting a paper source and pressing **[MENU]**, Paper Settings > appears. By pressing the △, the paper type settings menu appears. After setting the correct paper type, press **[OK]** and printing starts.
Load MP Tray (A4)/(PLAIN)	There is no paper cassette installed in the printer that matches the paper size and paper type of the print job. Set paper in the MP tray. Press **[GO]** to resume printing. (Note that feeding the paper having a paper size which does not match the current paper size from the MP tray can cause paper jam.) If you want to print from a different paper source, press △ or ▽ to display Use alternative? and you can change the source for paper feeding. After selecting a paper source and pressing **[MENU]**, Paper Settings > appears. By pressing the △, the paper type settings menu appears. After setting the correct paper type, press **[OK]** and printing starts.
Low security	This message is displayed when Low was selected in Security Level.
Memory overflow Press GO	The total amount of data received by the printer exceeds the printer's internal memory. Try adding more memory. Press **[GO]** to resume printing. You can abandon printing by pressing **[Cancel]**. If Auto Error Clear is set to On, printing will be automatically resumed after a preset period of time. For more information, refer to *Auto Error Clear (Auto error clear setting) on page 4-60*.
Memory card error ## Press GO	A memory card error has occurred. Look at the error code given in place of ## and refer to *USB Memory and Memory Card Errors on page 6-10*. To return the printer to the print-ready status, press **[GO]**.
No multi copies Press GO	Multi copies cannot be printed because RAM disk is disabled or the hard disk is not installed. Try adding more memory or installing hard disk, and configuring the RAM disk settings.
No power supply Cassette	This message is displayed when the optional paper feeder PF-530 is not connected to a power source and COATED (coated paper) is selected as the paper type setting. Connect it to a power source via the printer.
Original toner installed	Displayed when the installed toner is the original Olivetti product.
Paper jam ###############	A paper jam has occurred. The location of the paper jam is indicated in place of the #'s. For more information, refer to *Clearing Paper Jams on page 6-11*.
Paper loading	The selected cassette is being prepared.
Paper path error	There is no paper cassette in the printer, or the cassette is not inserted properly. After reinserting the paper cassette, you should be able to print. When two or more optional feeders are installed and the lowest one is selected, the same message will appear if any of the upper paper feeder and the printer cassette is improperly installed.
Check the toner container	The toner container is not correctly installed. Open the top cover and correctly reinstall it.

Message	Corrective Action
Print overrun Press GO	The data transferred to the printer was too complex to print on a page. Press **[GO]** to resume printing.
RAM disk error## Press GO	A RAM disk error has occurred. Look at the error code given in place of ## and refer to *Storage Error Codes on page 6-10*. To ignore the RAM disk error, press **[GO]**.
Replace toner (C,M,Y,K)/(Clean Printer)	Toner has run out in the toner container(s). Replace the toner container using a new toner kit for the particular color. The printer does not operate when this message is displayed. For example, if Replace toner C,K is displayed, replace the cyan and the black toner containers. For more information, refer to *Toner Container Replacement on page 5-2*. Clean inside the printer when replacing the toner container. For more information, refer to *Cleaning the Printer on page 5-8*.
Toner low C,M,Y,K	Replace the toner container using a new toner kit. Color of the toner container that needs to be replaced is represented by C (Cyan), M (Magenta), Y (Yellow), and K (Black). For more information, refer to *Toner Container Replacement on page 5-2*.
Top tray paper full	The top tray has become full (approx. 250 pages). You must remove all printed pages from the top tray. When the printer detects that the top tray is empty again, the printer will continues printing into the top tray.
Unknown toner installed	If the toner container was taken from a different machine of the same model while it was displaying the Add toner. message, ignore the message and use the toner.
Unknown toner PC C,M,Y,K	This message is displayed if the installed toner container's regional specification does not match the printer's. Install the specified toner container.
USB memory error ## Press GO	An error has occurred in the USB memory device. To return the printer to the print-ready status, press **[GO]**.
Use alternative? Cassette 1	When the cassette does not contain any paper that matches the print data (paper size and type), this message allows you to specify an alternative cassette to use instead. A paper source number is only displayed when an optional paper feeder is installed. To print from a different paper source, refer to *Paper Feed Mode (Setting the paper feed source) on page 4-38*.
Wrong Account	Displayed when an attempt is made to register an account in the Job Accounting menu by entering an account code that already exists. For more information, refer to *Job Accounting (Job Accounting selection/setting) on page 4-70*.
Wrong ID	The administrator ID entered to open the Security function or Job Accounting menu is not correct. Enter the correct administrator ID. For more information, refer to *Administrator (Administrator settings) on page 4-76*.
Wrong Password	The password does not match the password set. Enter the correct password. For more information, refer to *Administrator (Administrator settings) on page 4-76*.

Storage Error Codes

Hard Disk Errors

Code	Meaning
01	Hard disk format error. If this error recurs even if the power has been turned off and then on, reformat the hard disk.
02	The disk system is not installed. Recheck the requirements for using the system and the devices.
04	There is no available hard disk space. Delete unnecessary files, etc., in order to free up space.
05	The specified file does not exist in the hard disk.
06	There is no memory available to the hard disk system. Increase the available memory.
10	Formatting is not possible because host data is being spooled on the hard disk. Wait until the hard disk is ready, and then format.
97	The number of permanent code jobs that can be stored reached the limit value, and no more can be saved. Either delete some unnecessary jobs, etc., or increase the limit.
98	An unreadable page was found in a job (The job is damaged.).
99	A print job for the specified ID does not exist in the hard disk.

USB Memory and Memory Card Errors

Code	Meaning
01	The printer does not support the USB memory inserted, or the USB memory is broken. Insert the correct USB memory. For more information, refer to *USB Memory (USB memory selection) on page 4-16*.
02	The USB memory is not installed. Recheck the requirements for using the system and the USB memory.
03	The USB memory is write protected. Check the USB memory's status.
04	There is not enough space in the USB memory. Delete unnecessary files or use a new USB memory.
05	The specified file is not on the USB memory.
06	There is not enough printer memory to support the USB memory system. Increase printer memory.
50	The USB memory is write protected, or invalid. Check the USB memory's status.

RAM Disk Errors

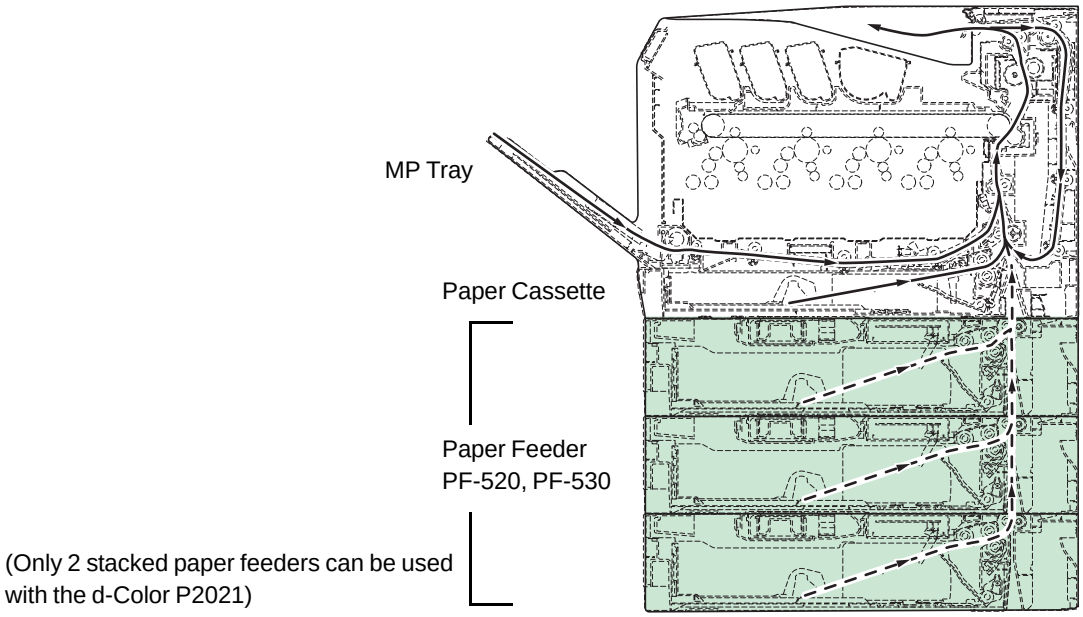
Code	Meaning
01	Format error. Try turning the power off and on again.
02	RAM disk mode is Off. Turn RAM disk mode On from the operation panel.
04	No disk space. Purge unnecessary files.
05	Specified file is not on disk.
06	Insufficient printer memory to support the RAM disk system. Expand printer memory.

Clearing Paper Jams

If the paper jammed in the paper transport system, or no paper sheets were fed at all, the `Paper jam` message appears and the location of the paper jam (the component where the paper jam has occurred) is also indicated. The printer automatically goes off-line when this message is displayed. Remove jammed paper. After removing jammed paper, the printer will re-start printing.

Possible Paper Jam Locations

The figure below explains the printer's paper paths including the options. The locations where paper jams might occur are also shown here, with each location explained in the table below. Paper jams can occur in more than one component on the paper paths.



Paper Jam Message	Description	Reference Page
`Paper jam` `Printer`	Paper is jammed inside the printer or paper cassette.	*page 6-12* *page 6-13* *page 6-15*
`Paper jam` `MP Tray`	Paper is jammed at the MP Tray.	*page 6-12*
`Paper jam` `Cassette 2 (to 4)`	Paper is jammed at the optional paper feeder's cassette.	*page 6-15*

General Considerations for Clearing Jams

Bear in mind the following considerations when attempting jam removal:

> **CAUTION** When pulling the paper, pull it gently so as not to tear it. Torn pieces of paper are difficult to remove and may be easily overlooked, deterring the jam recovery.

- If paper jams occur frequently, try using a different type of paper, replace the paper with paper from another ream, flip the paper stack over, or rotate the paper stack 180 degrees. The printer may have problems if paper jams recur after the paper was replaced.
- Whether or not the jammed pages are reproduced normally after printing is resumed depends on the location of the paper jam.

Utilizing Online Help Messages

Online help messages are available in the printer's message display to provide simple instructions for clearing jams. Press ([?]) when the paper jam message has appeared. Then a help message will appear to facilitate jam clearing in the location.

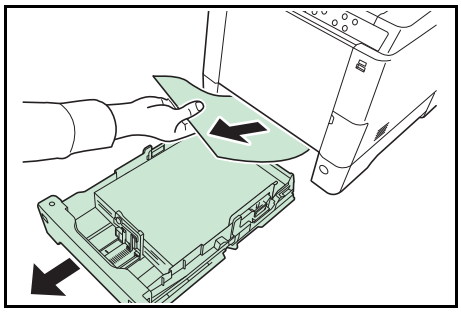
Paper jam at Cassette

Paper is jammed at paper cassette.

1 First, open the printer's rear cover and check for paper jams in the paper transfer unit.

For more information, refer to *Paper Jam in Printer on page 6-13*.

2 Pull out the paper cassette and remove the jammed paper.



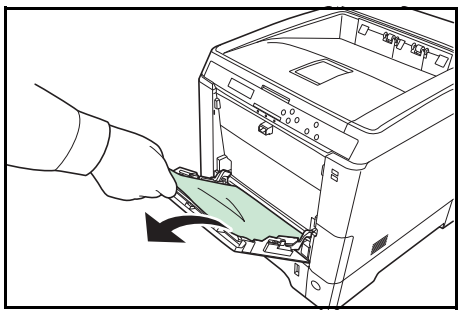
Paper Jam at MP Tray

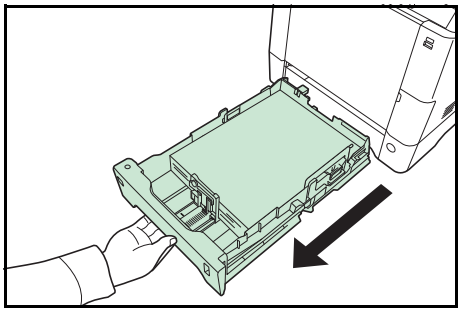
Paper is jammed at the MP tray. Remove the jammed paper using the procedure given below.

1 First, open the printer's rear cover and check for paper jams in the paper transfer unit.

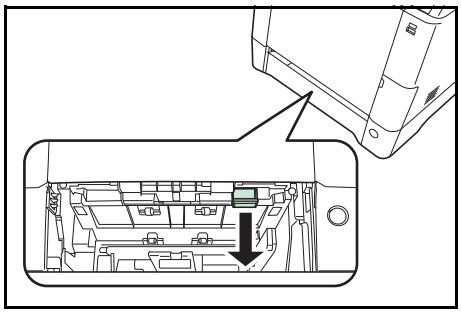
For more information, refer to *Paper Jam in Printer on page 6-13*.

2 Remove the jammed paper.

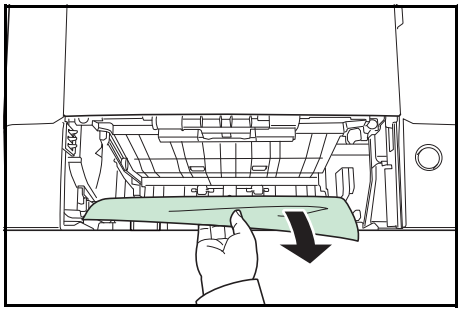




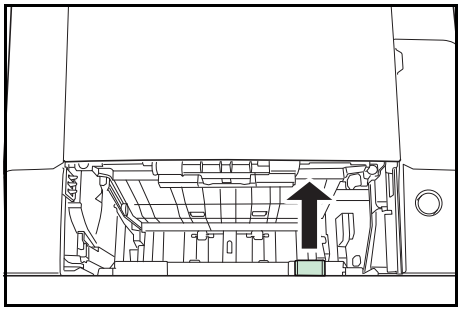
3 Pull the paper cassette all the way out of the printer.



4 Open the lower feed cover.



5 Remove the jammed paper.



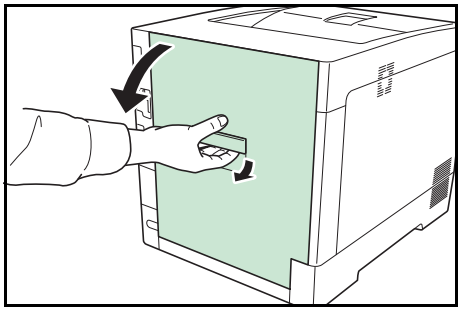
6 Close the lower feed cover.

7 Insert the paper cassette into the slot in the printer.

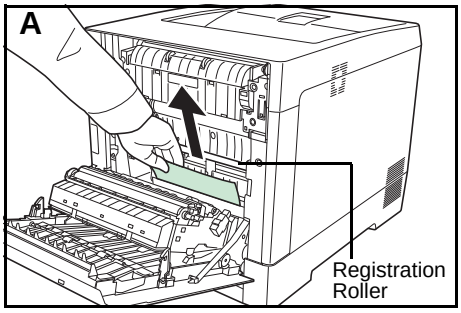
Paper Jam in Printer

Paper is jammed at the paper cassette or inside the printer. Remove the jammed paper using the procedure given below.

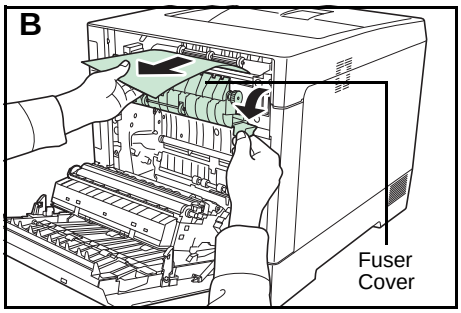
CAUTION Components inside the fuser cover are hot. Do not touch it with your hands as it may result in burn injury.



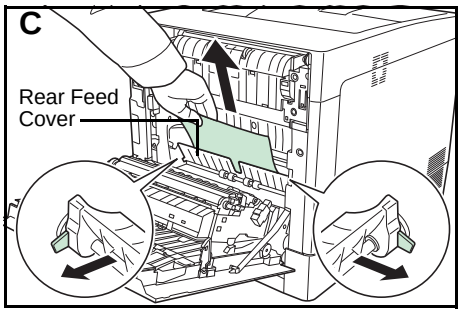
1 Pull up the rear cover lever and open the rear cover.



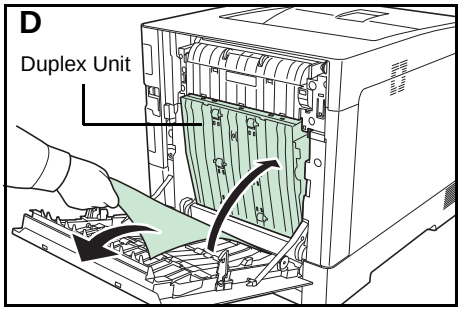
2 If the paper has jammed near the registration roller, as shown in **A**, remove the paper by pulling its edge.



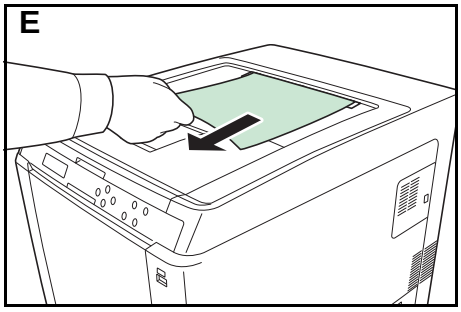
If the paper has jammed inside the fuser unit, as shown in **B**, open the fuser cover and remove the paper by pulling its edge.



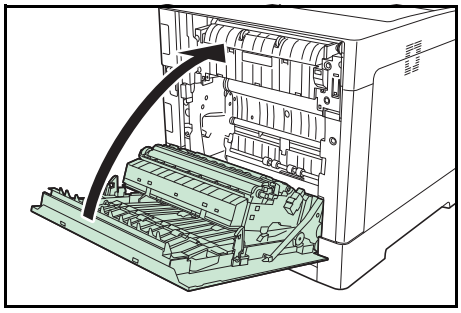
If the paper has jammed inside as shown in **C**, open the rear feed cover and remove the paper by pulling its edge.



If the paper has jammed inside the duplex unit, as shown in **D**, lift the duplex unit and remove the paper.



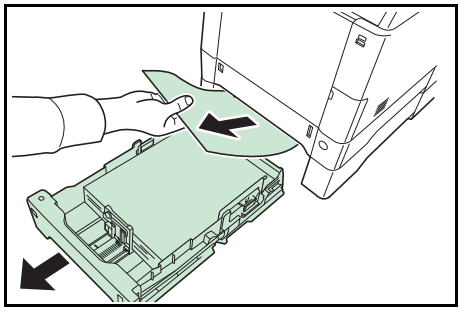
If the paper has jammed with most of the paper protruding out in the top tray as shown in **E**, remove the paper by pulling its edge.



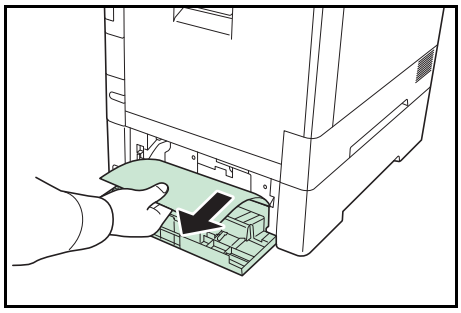
3 Close the rear cover.

Paper Jam at Cassette 2 (to 4)

Paper is jammed at the paper cassette. Remove the jammed paper using the procedure given below.



1 Pull out the paper cassette of the optional paper feeder and remove the jammed paper.



2 Open the rear cover of the paper feeder and remove the jammed paper.

Appendix

This chapter lists the provides details of the available interfaces and describes the optional hardware that can be installed on the printer and shows the printer's specifications.

Interface A-2
USB Interface A-2
Network Interface A-3
About the Options A-5
Expansion Memory Modules A-6
General Description of Options A-8
Specifications A-12

For availability of the options, consult your service technician.

Interface

This chapter explains the signals used in the printer's USB, and network interfaces. It also lists pin assignments, signal functions, timings, connector specifications, and voltage levels.

- USB Interface
- Network Interface

USB Interface

This printer supports the Hi-Speed USB. USB (Universal Serial Bus) interface specifications and interface signals are as follows.

Specifications

Basic Specification

Complies with the Universal Serial Bus Specification Revision 2.0.

Connectors

Printer: B-type receptacle (female) with upstream port

Cable: B-type plug (male)

Cable

Use a shielded cable that complies with USB 2.0 (Hi-Speed USB) and not longer than 5 meters (16 feet).

Transfer Mode

High speed (480 Mbps maximum)

Full-Speed (12 Mbps maximum)

Power Control

Self-power device

Interface Signals

USB Connector Pin Assignment

Pin	Signal	Description
1	Vbus	Power supply (+5 V)
2	D-	Data transmission
3	D+	Data transmission
4	GND	Signal ground
Shell	—	Shield

Network Interface

Features

Automatically Obtains an IP Address

Supports the DHCP/DHCPv6 protocol and can receive an IP address assigned by a DHCP/DHCPv6 server.

Management Using a Web Browser (Embedded Web Server)

HTTP pages (Embedded Web Server) are incorporated into the interface, so that a web browser can be used to access the Embedded Web Server to monitor and change a range of settings. The settings can be password-protected.

Support for a Range of Protocols

The SMTP, POP3, SSL, SNMP, IPv6 and NetBIOS over TCP/IP protocols are supported for easier printer management and more robust security.

Support for IEEE 802.1x

The interface supports EAP-TLS and PEAP authentication.

Supports IPv6

Supports IPv6, which is based on IPv4 with improvements, such as increased manageable address space, additional security functions and priority based data transmission.

Supports IPSec

Supports IPSec, the security protocol that authenticates and encrypts in the network layer (IP layer).

Specifications

Connector

10 Base-T/100 Base-TX

Operating Systems

Windows 2000/XP/Vista/7/Server2003/Server2008, MacOS 10.x

Network Protocols

- IPv6: HTTP, LPD, FTP, IPP, RawPort, ICMPv6, LLTD, SNTP, DHCPv6, SMTP, POP3, DNS, SNMPv1/v2c/v3, WSD
- IPv4: HTTP, HTTPS, LPD, FTP, IPP, RawPort, ICMP, DHCP, SMTP, POP3, SNTP, DNS, WINS, NetBIOS over TCP/IP, SNMPv1/v2c/v3, Apple Bonjour Compatible, IPPS, LLTD, WSD
- Etc.: IPX/SPX, NetWare (NDS/Bindery), AppleTalk, NetBEUI

Security Protocols

SSL/TLS (HTTPS, IPPS), SNMPv3, EAP-TLS, PEAP, AH, ESP

Operation Environment

10 to 35 °C (50 to 95 °F), 20-80 % RH (condensation-free)

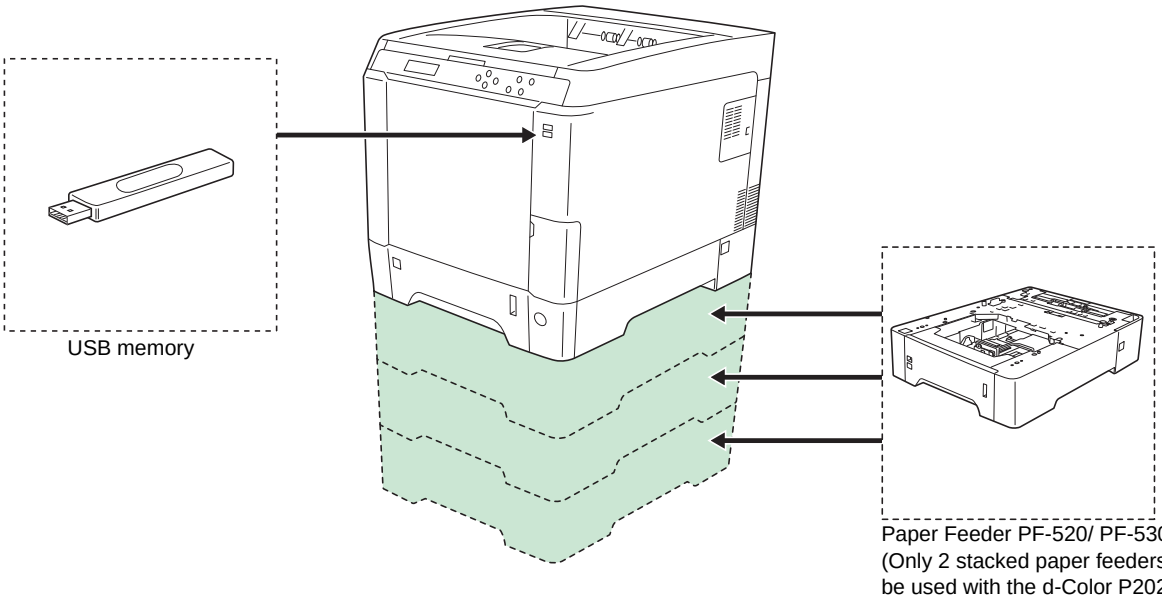
EMI Countermeasures

VCCI Class B, FCC Class B (U.S.), CE (Europe)

IMPORTANT When IPv6 functions are used, the devices used on the network (routers, PCs, etc) must support IPv6.

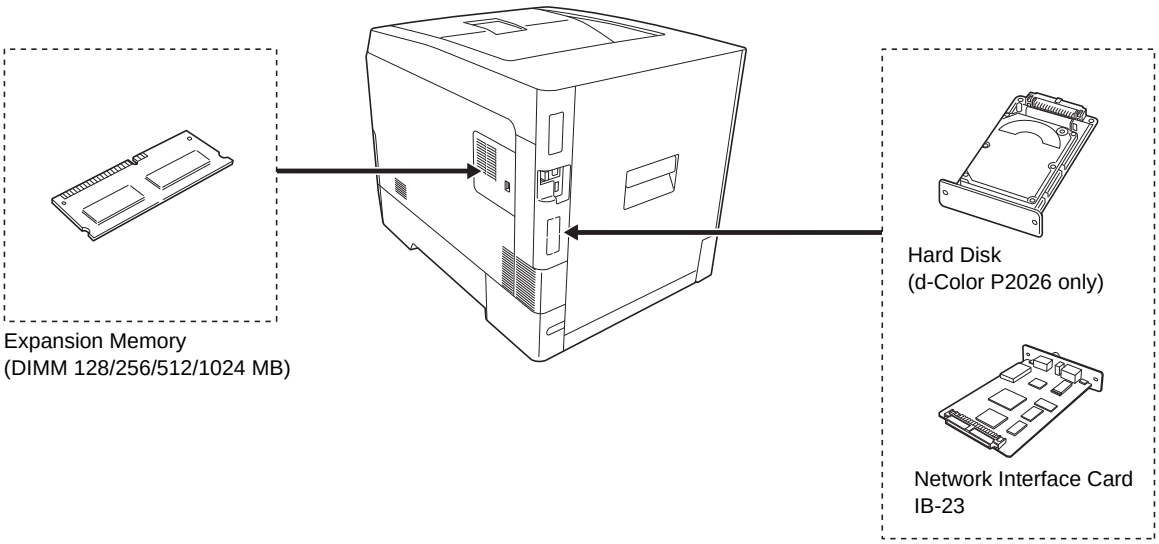
About the Options

This printer has the following options available to satisfy your printing requirements. For instructions on installing individual options, refer to the documentation included with the option. Some options are explained in the following sections.



USB memory

Paper Feeder PF-520/ PF-530
(Only 2 stacked paper feeders can be used with the d-Color P2021)



Expansion Memory
(DIMM 128/256/512/1024 MB)

Hard Disk
(d-Color P2026 only)

Network Interface Card
IB-23

Expansion Memory Modules

The printer's main controller board has a memory slot into which you can plug in optional memory modules (dual in line memory modules). You can increase the printer's memory up to 1,280 MB by plugging in the optional memory modules.

Note A 256 MB memory module is already installed at the factory. To expand memory up to 1,280 MB, install 1,024 MB memory module.

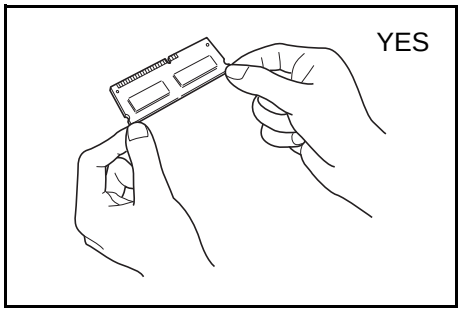
Expansion Memory Modules

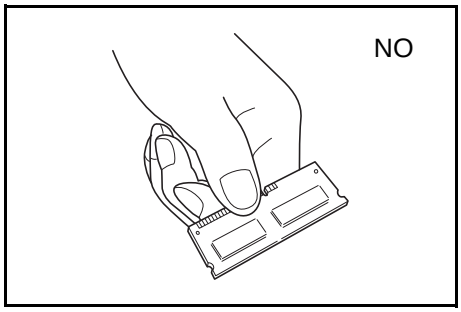
You can select additional memory modules from 128, 256, 512 or 1,024 MB. The maximum memory size is 1,280 MB.

Precautions for Handling the Printer's Main Controller Board and Memory Modules

To protect electronic parts, discharge static electricity from your body by touching a water pipe (faucet) or other large metal object before handling the memory modules. Or, wear an antistatic wrist strap, if possible, when you install the memory modules.

Always hold the main controller board or a memory module by its edges as shown below to avoid damaging electronic parts.

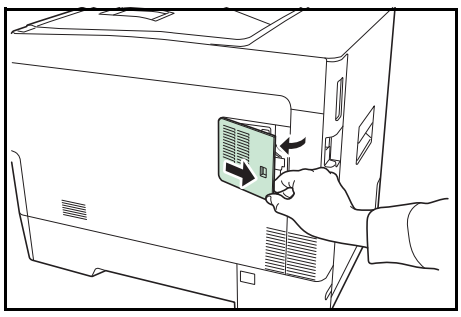


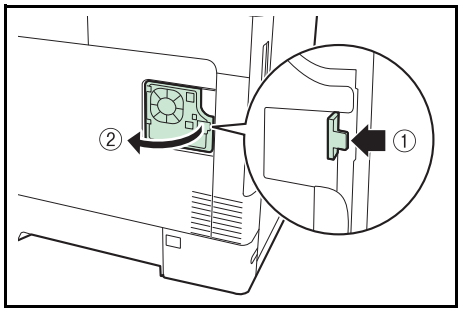


Installing the Memory Modules

IMPORTANT Remove any USB memory that is attached to the printer's USB memory slot.

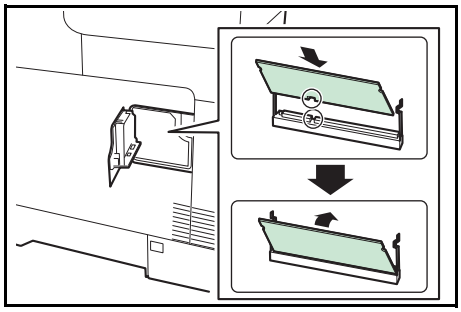
1. Power off the printer and unplug the printer power cord.
2. Pull the right cover of the printer toward you and remove.





3 Open the inside cover.

4 Remove the memory module from its package.



5 With the memory connection terminal pointing toward the socket, align the cut-out part with the socket terminal and insert directly in at an angle.

CAUTION Before inserting a memory module in the machine, make sure that the machine is switched off.

6 Carefully press the inserted memory down and into the machine.

7 Reinstall the right cover.

Removing a Memory Module

To remove a memory module, remove the right cover, open the inner cover, and then carefully open the two socket clamps. Ease the memory module out of the socket to remove.

Testing the expanded memory

After you finish installing the memory module in the printer, test the printer to see if the installation was successful. To test the expansion memory, proceed as follows:

1 Make sure the printer is turned off. Plug the power cord into the printer and turn the printer on.

2 Press **[Menu]** on the operation panel.

3 Press △ or ▽ repeatedly until `Report Print >` appears.

4 Press ▷ while `Report Print >` is displayed.

5 Press △ or ▽ repeatedly until `> Print Status Page` appears.

6 Press **[OK]** twice.

7 If the installation was successful, the amount of memory shown on the status page will correspond with the amount of expanded memory. (The factory installed memory size is 256 MB.)

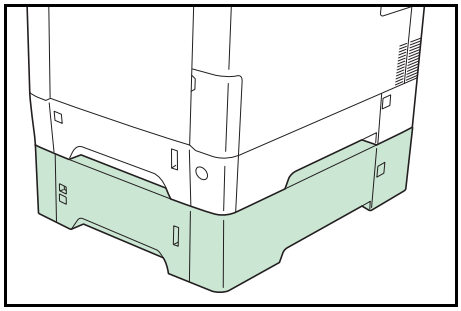
General Description of Options

PF-520, PF-530 Paper Feeder

The optional paper feeder PF-520 (for plain paper) and PF-530 (for multiuse media) will each hold approximately 500 sheets of paper (80 g/m²). Up to 3 optional feeders can be added to the bottom of the printer (only 2 stacked paper feeders can be used with the d-Color P2021), allowing continuous feeding of up to 2,000 sheets of paper (1,250 sheets in the d-Color P2021) when combined with the printer's own cassette.

IMPORTANT When you use the paper feeder, place the papers and envelopes print-side up.

The papers that can be used in the cassettes supplied with the paper feeders are as follows:



PF-520 :

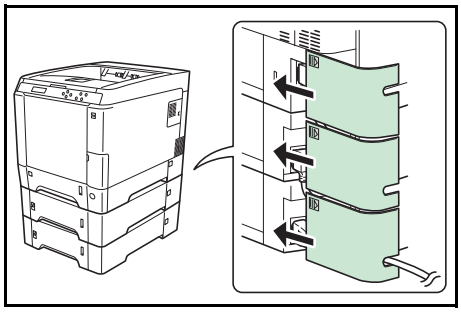
Paper size : Envelope Monarch, Envelope #10, Envelope #9, Envelope #6, Envelope DL, Envelope C5, A5, B5, ISO B5, A4, Executive, Letter, Legal, OufukuHagaki, Oficio II, Statement, Folio, Youkei 2, Youkei 4, 16K and custom (92 × 165 mm to 216 × 356 mm)

Paper type : Plain, preprinted, bond, recycled, rough, letterhead, color, prepunched, thick, high quality, custom 1 (to 8)

PF-530 :

Paper size : Envelope Monarch, Envelope #10, Envelope #9, Envelope #6, Envelope DL, Envelope C5, A5, B5, ISO B5, A4, Executive, Letter, Legal, OufukuHagaki, Oficio II, Statement, Folio, Youkei 2, Youkei 4, 16K and custom (92 × 162 mm to 216 × 356 mm)

Paper type : Plain, preprinted, labels, bond, recycled, rough, letterhead, color, prepunched, cardstock, envelope, coated, thick, high quality, custom 1 (to 8)



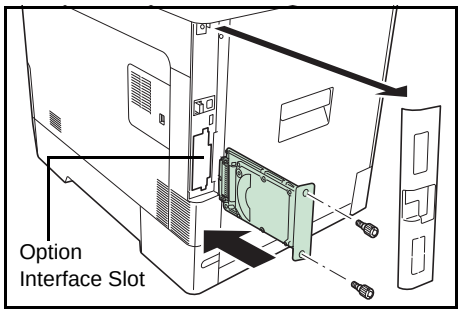
IMPORTANT Place the paper feeders on a stable desk or base.

When moving the printer with the PF-530 installed, disconnect the AC relay cord that connects the printer and the PF-530.

Make sure the cover is attached during use.

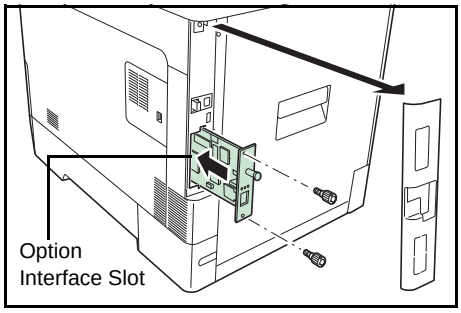
Hard Disk

IMPORTANT A hard disk can only be installed in the d-Color P2026.



Insert the hard disk into the option interface slot. If a hard disk is installed in the printer, received data can be rasterized and stored on this hard disk. This enables high-speed printing of multiple copies using an electric sort function. Also, you can use the Job Box functions. For details, refer to *Job Box on page 4-22*.

IB-23 Network Interface Card

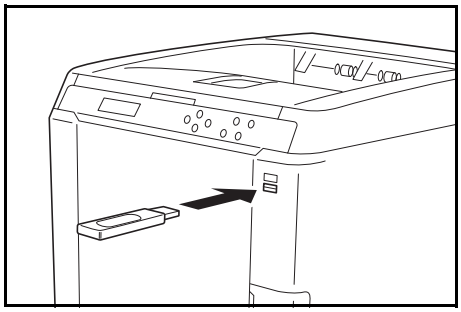


Along with the standard for the network interface on the printer, the network interface card supports TCP/IP, IPX/SPX, NetBEUI and AppleTalk protocols, so that the printer can be used on network environments including Windows, Macintosh, UNIX, NetWare, etc. The network interface card must be installed in the option interface slot at the back of the printer as shown in the figure.

CAUTION Software older than version 1.2.1 cannot be used with the IB-23.

Network interface card	Network connections
IB-23	10Base-T/100Base-TX

USB Memory



USB memory is a type of simple, highly portable flash memory that plugs into the USB memory slot. Files stored in USB memory can be printed by plugging the USB memory into the printer and then specifying the desired file names from the operation panel.

The operation panel displays the names of PDF, TIFF, JPEG and XPS files.

Up to 100 files can be printed from USB memory. Files with names consisting of up to 99 single-byte alphanumeric characters can be printed. However, because the message display will only show 12 characters, files with 13 or more characters cannot be identified on the message display.

Any double-byte characters included in a file name appear as corrupted text in the message display. Also, when the file is printed an error message appears and printing fails.

For information on printing PDF files stored in USB memory, refer to *USB Memory (USB memory selection) on page 4-16*.

For information on supported USB memory devices, contact your service technician.

Optional Functions

You can use the optional applications installed on this machine.

Overview of the Applications

The applications listed below are installed on this machine.

- UG-33 (ThinPrint) (This application can only be activated in Europe.)

This application allows print data to be printed directly without a print driver.

Note Restrictions such as the number of times the application can be used during the trial period differ depending on the application.

1 Press **[MENU]**.

2 Press △ or ▽ repeatedly until `Op functions >` appears.

```
Op functions      >
```

ID (Administrator ID input)

To use the Optional functions, you must enter an administrator ID. For information on how to set the administrator ID, refer to *Administrator (Administrator settings) on page 4-76*.

1 Press ▷ while `Op functions >` is displayed.

2 The message display shows `ID` and a blinking cursor (_).

```
ID
_
```

3 Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified ID. Use ◁ and ▷ to move the cursor right and left. Enter an ID consisting of between 1 and 16 numbers.

4 Press **[OK]**. Proceed to the next step *Password (Administrator Password input)*.

Password (Administrator Password input)

To set up the Optional functions, you must enter an administrator ID and administrator password. For information on how to set the administrator password, refer to *Administrator (Administrator settings) on page 4-76*.

1 Once you have entered the correct ID in the previous step (ID (Administrator ID input)), the message display shows `Password` (Administrator password input) and a blinking cursor (_).

```
Password
_
```

2 Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified password. Use ◁ and ▷ to move the cursor right and left. Enter a password consisting of between 0 (no settings) and 16 numbers.

Note If you enter the incorrect administrator ID or password, the message `Wrong ID` or `Wrong Password` appears and the input screen then reappears. Re-enter the ID or password correctly.

3 Press **[OK]**. The Op functions screen appears.

Activate applications

Enter a license key to activate the applications.

1 Press ▷ while `Op functions >` is displayed.

2 Press △ or ▽ repeatedly until `>UG-33 Activate` appears.

3 Press ▷.

4 Press **[OK]**. A blinking question mark (?) appears.

```
>>Activate
? Official
```

5 Press △ or ▽ to select `Official` or `Trial`.

If you select `Official`, the License key entry screen is displayed. Press △ or ▽ to increase or decrease the value at the blinking cursor. Enter the License key. Use ◁ or ▷ to move the cursor right and left. Once you have entered the license key and press **[OK]**, the confirmation screen appears.

If you select `Trial` and press **[OK]**, the confirmation screen appears.

6 Press **[OK]**. `Licensed.` is displayed and the application is installed.

Checking Application Details

Use the procedure below to check the details of an application.

1 Press ▷ while `Op functions >` is displayed.

```
Op functions      >
```

2 Press △ or ▽ repeatedly until `>UG-33 detail >` appears.

```
>UG-33 detail     >
```

3 Press ▷. You can now view detailed information on the selected application.

Specifications

Note Specifications are subject to change without notice.

Item		Description	
		d-Color P2021	d-Color P2026
Printing Method		Electrophotographic four color (CMYK) printing using tandem (4) drum system	
Printing Speeds	Cassette	A4: 21 ppm, B5, A5, A6: 23 ppm*1, Letter: 23 ppm, Legal: 18 ppm	A4: 26 ppm, B5, A5, A6: 28 ppm*1, Letter: 28 ppm, Legal: 23 ppm
	MP Tray	A4: 15 ppm, B5, A5, A6: 15 ppm*1, Letter: 15 ppm, Legal: 15 ppm	A4: 19 ppm, B5, A5, A6: 19 ppm*1, Letter: 19 ppm, Legal: 19 ppm
Duplex Printing Speed		A4: 11 ppm, B5, A5: 11 ppm, Letter: 11 ppm, Legal: 10 ppm	A4: 13 ppm, B5, A5: 14 ppm*2, Letter: 13 ppm, Legal: 12 ppm
Resolution		600 dpi	
First Print Out Time		B/W : 10.5 seconds or less Color : 12 seconds or less	B/W : 9 seconds or less Color : 10.5 seconds or less
Warm-up Time (22°C, 60%RH)	Power On	32 seconds or less	29 seconds or less
	Sleep	18 seconds or less	20 seconds or less
Controller		PowerPC464-667 MHz	
Memory	Standard	256 MB	
	Maximum	1,280 MB	
Operating Systems		Microsoft Windows 2000/XP/Vista/7, Windows Server 2003/2008 Apple Macintosh OS X	
Interface	Standard	USB: Hi-Speed USB Network: 10 BASE-T/100 BASE-TX KUIO-LV slot	
	Option	-	Hard Disk
		Network Interface Card: 1 (10 BASE-T/100 BASE-TX)	
Monthly Duty	Average	1,000 pages	1,500 pages
	Maximum	50,000 pages	65,000 pages
Paper Sizes	Cassette	A4, B5, A5, Folio, 8 1/2 × 14"(Legal), 8 1/2 × 11"(Letter), Oficio II, Statement, Executive, ISO B5, A6, Envelope C5, 16K, and Custom	
	Optional Paper Feeder PF-520/ PF-530	Envelope Monarch, Envelope #10, Envelope #9, Envelope #6, Envelope DL, Envelope C5, A5, B5, ISO B5, A4, Executive, Letter, Legal, OufukuHagaki, Oficio II, Statement, Folio, Youkei 2, Youkei 4, 16K, and Custom	
	MP Tray	A4, B5, A5, Folio, 8 1/2 × 14"(Legal), 8 1/2 × 11"(Letter), Oficio II, Statement, Executive, A6, B6, ISO B5, Envelope Monarch, Envelope #10, Envelope #9, Envelope #6, Envelope DL, Envelope C5, 16K, Hagaki, OufukuHagaki, Youkei 2, Youkei 4, and Custom	

*1 : After 16 pages the printing speed becomes 14 ppm.
*2 : With the MP tray installed, the printing speed becomes 13 ppm.

Item		Description	
		d-Color P2021	d-Color P2026
Paper Types†	Cassette, Optional Paper Feeder PF-520	Plain, preprinted, bond, recycled, rough, letterhead, color, prepunched, thick, high quality, and custom	
	Optional Paper Feeder PF-530	Plain, preprinted, labels, bond, recycled, rough, letterhead, color, prepunched, envelope, cardstock, coated, thick, high quality, and custom	
	MP Tray	Plain, transparency, preprinted, labels, bond, recycled, vellum, rough, letterhead, color, prepunched, envelope, cardstock, coated, thick, high quality, and custom	
Paper Feed Source Capacity	Cassette	250 sheets (80 g/m^2)	500 sheets (80 g/m^2)
	MP Tray	50 sheets (80 g/m^2)	50 sheets (80 g/m^2)
Margin		4 mm (left, right, top and bottom)	
Output Tray Capacity	Top Tray	250 sheets (80 g/m^2)	
Operation Environment	Temperature	10 to 32.5 °C (50 to 90.5 °F)	
	Relative Humidity	15 to 80 %	
	Altitude	2,500 m (8,202 feet) maximum	
	Illumination	1,500 lux maximum	
Power Source		120 V, 60 Hz, max. 8.5 A (U.S.A./Canada) 220-240 V, 50 Hz/60 Hz, max. 4.5 A (European countries) Max. allowable voltage fluctuation: ±10 % Max. allowable frequency fluctuation: ±2 %	
Power Consumption	Maximum	1,068 W or less (U.S.A./Canada) 1,129 W or less (European countries)	1,111 W or less (U.S.A./Canada) 1,169 W or less (European countries)
Operating Noise††	During Printing	LpA = 61.7 dB (A)	
	During Standby	LpA = 43 dB (A)	
	During Sleep Mode	immeasurably low	
Dimensions (W × D × H)		390 × 523 × 370 mm 15-3/8 × 20-9/16 × 14-9/16"	390 × 523 × 397 mm 15-3/8 × 20-9/16 × 15-5/8"
Weight		Approx. 28 kg (61.7 lbs)	Approx. 31.5 kg (69.4 lbs)

†. When using CUSTOM 1 (to 8), use the MP tray for paper sizes smaller than 105 × 148 mm (4-1/8 × 5-13/16 inches). The MP tray can be used with paper sizes over 70 × 138 mm (2-3/4 × 5-7/16 inches).

††. Sound pressure level at bystander position [front] in accordance with EN ISO 7779.

Glossary

Additional memory

An additional memory (optional) is used for increasing the memory capacity of this machine. For DIMM that can be used in this machine, contact your service technician.

AppleTalk

AppleTalk offers file sharing and printer sharing and it also enables you to utilize application software that is on another computer on the same AppleTalk network.

Custom Box

The Custom Box function stores print data for each individual user on the printer and allows the user to print single or multiple copies of the stored data later using the printer's operation panel.

Default Gateway

This indicates the device, such as a computer or router, that serves as the entrance/exit (gateway) for accessing computers outside of the network that you are on. When no specific gateway is designated for a destination IP address, data is sent to the host that is designated as the Default Gateway.

DHCP (Dynamic Host Configuration Protocol)

This is a protocol that automatically resolves the IP address, Subnet Mask and Gateway address on a TCP/IP network. Use of DHCP minimizes the load of network administration, especially on network environments with a large number of client computers where it is not specifically necessary to assign a separate IP address to each client, including printers.

dpi (dots per inch)

This indicates the number of dots printed per inch (25.4 mm) as a unit for expressing resolution.

EcoPrint

This is a printing mode that reduces toner consumption. Pages printed in the EcoPrint mode are lighter than pages printed in the normal mode.

Emulation

This refers to emulation of other manufacturers' printers. The printer emulates operation of the following printers: PCL6 and KPDL.

Form Feed Timeout

While data is being sent to a printer, some pauses may occur. At this time, the printer waits for the next data without making a page break. Form feed timeout is a function to wait only a preset amount of time before it executes an automatic page break. After the waiting period begins, once the designated amount of time is exceeded, the printer will automatically process the currently received data and print it out. If the machine has

received no print data for the last page, the printer ends processing of that job without outputting paper.

IP Address (Internet Protocol Address)

The Internet Protocol address is a unique number that represents a specific computer in a network. The format of an IP Address is four numbers separated by dots, e.g. 192.168.110.171. Each number should be a decimal between 0 and 255.

Job Box

The Job Box function stores print data on the printer and allows users to print single or multiple copies of the stored data later using the printer's operation panel.

KPDL

Kyocera's PostScript page description language compatible with Adobe PostScript Level 3.

MP Tray

This tray is used instead of the cassette when printing on envelopes, postcards, transparency sheets, and labels.

NetBEUI (NetBIOS Extended User Interface)

An enhanced version of the NetBIOS protocol, it enables the utilization of more advanced functions on small-scale networks than do other protocols such as TCP/IP, etc.

Outline font

With outline fonts, character outlines are represented with numerical expressions and fonts can be enlarged or reduced in different ways by changing the numeric values of those expressions. Printing remains clear even if you enlarge fonts, since the characters are defined with outlines represented with numerical expressions. You can specify the font size in steps of 0.25 points up to 999.75 points.

PostScript

This is a page description language developed by Adobe Systems, Inc. It enables flexible font functions and highly-functional graphics, allowing higher quality printing.

PPM (prints per minute)

This indicates the number of printouts made in one minute.

Printing system driver

The printing system driver makes it possible for you to print data created using application software. The printing system driver for the printer is contained on the CD-ROM supplied with the printer. Install the printing system driver on the computer connected to the printer.

Sleep mode

This mode is provided to save power. It is activated when the machine is not used for a preset period of time. In this mode, power is reduced to the minimum. The default setting can be changed.

Status page

This lists machine conditions, such as the machine's memory, the total number of prints and paper source settings. You can print the status page from the operation panel.

Subnet Mask

This is a 32-bit numerical value that defines which bits of the IP address specify the network address and which specify the host address.

TCP/IP (Transmission Control Protocol/Internet Protocol)

TCP/IP is a suite of protocols designed to define the way computers and other devices communicate with each other over a network.

USB (Universal Serial Bus)

An interface standard for low to middle speed serial interfaces. This printer supports Hi-Speed USB. The maximum transfer rate is 480 Mbps and the maximum cable length is 5 meters (16 feet).

Index

A

Administrator ID 4-62, 4-70, 4-76, A-10
  Change 4-77
Administrator Password 4-62, 4-71, 4-76, A-10
  Change 4-77
AppleTalk 4-65
Auto Error Clear 4-60
  Timer 4-60
Auto Panel Reset 4-61
  Timer 4-61
Auto Sleep
  Timer 4-59
Auto-IP 4-47

B

Bonjour 4-49
Buzzer 4-54

C

Canceling a Printing Job 4-6
Cleaning
  Paper transfer unit 5-8
Coated Paper 3-12
Color Calibration 4-79
Color Mode
  Color or Black & White 4-42
Color Registration
  Detailed 4-82
  Standard 4-79
Colored Paper 3-12
Counter 4-28
Custom Box 4-18
  Custom box list 4-21
  Manipulating data 4-19
  Select box 4-18

D

Date Setting 4-52
DHCP 4-47
Duplex Printing 4-38
  Binding modes 4-39
  Error detection 4-57
Duplex Unit 1-3

E

EcoPrint Mode 4-43
Embedded Web Server 2-3
Emulation
  Error report 4-40
  on the status page 4-14
  Setting 4-40
Energy Star Program xiv
Envelopes 3-10
Error Detection
  Duplex printing 4-57
  MP tray empty 4-58
  Paper mismatch 4-58
  Setting 4-57
Error Messages 6-6
  Hard disk 6-10
  RAM disk 6-10
  USB Memory 6-10

F

Firmware Version 4-14
Fonts List 4-15
Form Feed Timeout 4-59

G

Gateway 4-49
Gloss Mode 4-42

H

Hard Disk 4-56, A-9
  Format 4-57
Hard Disk File List 4-15

I

Indicators
  Attention 1-4, 4-5
  Data 1-4, 4-5
  Ready 1-4, 4-5
Interface A-2
Interface Block 4-63
IPP (Internet Printing Protocol) 4-65
IPSec (IP Security Protocol) 4-68

J

Job Accounting 4-71
  Add account 4-74
  Delete account 4-75
  Job accounting list 4-75
  Select account 4-72
  Setting 4-71
Job Box 4-22
Job Retention 4-22
  Configuration 4-26
  Private print job 4-25
  Proof-and-Hold 4-24
  Quick copy 4-23

K

Keys
  Arrow keys 1-4, 4-6
  Basic operation 4-6
  Cancel 1-4, 4-6
  GO 1-4, 4-6

MENU 1-4, 4-6
OK 1-4, 4-7

L

Labels 3-9
Loading Paper
Cassette 3-14
MP tray 3-16

M

Machine Parts 1-1
Maintenance 5-1
Memory
Expanding memory modules A-6
Installing A-6
Removing A-7
Status page 4-14
Testing A-7
Menu Map 4-12
Menu Selection System 4-8
Message Display
Message language 4-52
Status information 4-4
Message Language 4-52
MP Tray 1-2
Paper jam 6-12
Paper size 4-29
Paper source 4-37
Paper type 4-30

N

NetWare 4-64
Network
TCP/IP (IPv4) 4-46
TCP/IP (IPv6) 4-50
Network Interface 1-3, A-3
Network Interface Card A-9
Network Settings 4-46

O

Online Help Messages 6-12
Operation Panel 1-2, 1-4
Options A-5
Override A4/Letter 4-40

P

Page Set
Number of copies 4-43
Print orientation 4-44
TIFF/JPEG size 4-45
Wide A4 pitch 4-44
XPS FitTo page 4-44
Paper
Availability 3-2
Coated 3-12
Colored 3-12
Envelope 3-10
Guidelines 3-2
Label 3-9
Loading paper into the cassette 3-14
Loading paper into the MP tray 3-16
Minimum and maximum sizes 3-3
Postcard 3-10
Preprinted 3-12
Recycled 3-12
Right paper 3-4
Special paper 3-8
Specifications 3-2
Thick 3-11
Transparency 3-8
Paper Cassette 1-2
Clearing paper jam 6-13
Paper feed mode 4-38
Paper size 4-31
Paper source 4-37
Paper type 4-33
Paper Feeder A-8
Paper jam 6-15
Paper Jam 6-11
Cassette 6-12
Locations 6-11
MP tray 6-12
Paper feeder 6-15
Printer 6-13
Paper Stopper 1-2, 3-17
Paper Transfer Unit 1-3
Cleaning 5-8
Paper jam 6-13
Postcards 3-10
Power Cord Connector 1-3
Power Switch 1-2
Preprinted Paper 3-12
Print
Application software 2-10
Custom box list 4-21
Font list 4-15
Hard disk file list 4-15
Job accounting list 4-75
Menu map 4-11
Network status page 4-87
RAM disk file list 4-15
Status page 4-13, 4-86
Printing from Application Software 2-10
Printing Problems
General guidelines tabled 6-2
Print quality problems, blank printing, etc. 6-3
Printing System Driver
Installing on Macintosh 2-6
Installing on Windows 2-4

R

RAM Disk 4-55
RAM Disk File List 4-15
Rear Cover 1-3
Recycled Paper 3-12
Restart Printer 4-86

S

Safety Conventions xv
Size Dial 4-31
Specifications A-12
SSL (Secure Sockets Layer) Server. 4-66
Status Page 4-13
Subnet Mask 4-48
Symbols xv

T

Thick Paper 3-11
Thin Print 4-69
Time Setting 4-52
Toner Containers 1-2
  Frequency 5-2
  Replacement 5-4
  Toner kits 5-3
Top Cover. 1-2
Top Tray 1-2
Transparency 3-8
Troubleshooting 6-1

U

Uninstalling Software 2-15
Unit of Measurement 4-32
USB Interface 1-3, A-2
USB Memory A-9
  Copies 4-17
  Paper source 4-17
  Print file 4-16
  Print file list. 4-17
  Remove device. 4-17
USB Memory Slot 1-2, 1-3

W

Waste Toner Box 1-2
  Replacement 5-6
Waste Toner Box Cover 1-2

DIRECTIVE 2002/96/CE ON THE TREATMENT, COLLECTION, RECYCLING AND DISPOSAL OF ELECTRIC AND ELECTRONIC DEVICES AND THEIR COMPONENTS

INFORMATION

1. FOR COUNTRIES IN THE EUROPEAN UNION (EU)

The disposal of electric and electronic devices as solid urban waste is strictly prohibited: it must be collected separately.

The dumping of these devices at unequipped and unauthorized places may have hazardous effects on health and the environment.
Offenders will be subjected to the penalties and measures laid down by the law.

TO DISPOSE OF OUR DEVICES CORRECTLY:

a) Contact the Local Authorities, who will give you the practical information you need and the instructions for handling the waste correctly, for example: location and times of the waste collection centres, etc.

b) When you purchase a new device of ours, give a used device similar to the one purchased to our dealer for disposal.

The crossed dustbin symbol on the device means that:

- when it to be disposed of, the device is to be taken to the equipped waste collection centres and is to be handled separately from urban waste;
- The producer guarantees the activation of the treatment, collection, recycling and disposal procedures in accordance with Directive 2002/96/CE (and subsequent amendments).

2. FOR OTHER COUNTRIES (NOT IN THE EU)

The treatment, collection, recycling and disposal of electric and electronic devices will be carried out in accordance with the laws in force in the country in question.

***N* ° 10-131**

DICHIARAZIONE CE DI CONFORMITA' del COSTRUTTORE secondo ISO/IEC 17050
MANUFACTURER'S CE DECLARATION of CONFORMITY according to ISO/IEC 17050

OLIVETTI S.p.A Via Jervis, 77 - IVREA (TO) - ITALY

Dichiara sotto la sua responsabilita' che il prodotto:
Declares under its sole responsibility that the product:

Categoria generale:	**Apparecchiature per la Tecnologia dell' Informazione**
Equipment category:	***Information Technology Equipment***
Tipo di apparecchiatura:	**Stampante a colori**
Product type:	***Color Printer***
Nome / *model*:	**d-Color P2021/ P2026**
Opzioni / *options*:	**PF-520, PF-530, IB-23, HD-5A**

sono CONFORMI alla Direttiva 1999/5/CE del 9 marzo 1999
are in compliance with directive 1999/5/EC dated 9th march 1999

e soddisfano i requisiti essenziali di **Compatibilità Elettromagnetica, Consumo Energetico e Sicurezza** previsti dalle Direttive:
and fulfill the essential requirements of Electromagnetic Compatibility, Electrical Power Cnsumption and Electrical Safety as prescribed by the Directives:

2004/108/CE del 15 Dicembre 2004; (EMC)
2004/108/EC dated 15th December 2004;
2009/125/CE del 21 Ottobre 2009; (ErP)
2009/125/EC dated 21st October 2009;
2006/95/CE del 12 Dicembre 2006; (LVD)
2006/95/EC dated 12th December 2006;

in quanto progettati e costruiti in conformità alle seguenti Norme Armonizzate:
since designed and manufactured in compliance with the following European Harmonized Standards:

EN 55022:2006 (Limits and methods of measurements of radio interference characteristics of Information Technology Equipment) / Class B;
EN 61000-3-2:2006 (Electromagnetic Compatibility (EMC) - Part 3: Limits - Section 2: Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
EN 61000-3-3:1995 + A1:2001 + A2:2005 (Electromagnetic Compatibility (EMC) - Part 3: Limits - Section 3: Limitation of voltage fluctuations and flicker in low voltage supply systems for equipment with rated current up to and including 16A);
EN 55024:1998 + A1:2001 + A2:2003 (Electromagnetic Compatibility – Information technology equipment – Immunity characteristics – Limits and methods of measurement);
EN 60950-1:2006+ A11:2009 (Safety of Information Technology Equipment, including electrical business equipment.)
EN 60825-1:2007 (Radiation Safety of laser products, equipment classification, requirements and user's guide).
EN 300 330-1 V1.5.1/2006
EN 300 330-2 V1.3.1/2006
EN 62301:2005 (Household electrical appliances – Measurement of standby power)

La conformità ai suddetti requisiti essenziali viene attestata mediante l'apposizione della **Marcatura CE** sul prodotto.
*Compliance with the above mentioned essential requirements is shown by affixing the **CE marking** on the product.*

Ivrea, 11 Ottobre 2010
Ivrea, 11th October 2010

Olivetti S.p.A.

Note: 1) La Marcatura CE è stata apposta nel 2010
Notes: 1) CE Marking has been affixed in 2010
2) Il Sistema della Qualità è conforme alle norme serie UNI EN ISO 9000.
2) The Quality System is in compliance with the UNI EN ISO 9000 series of Standards